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MATHEMATICAL TABLES.

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Hugh Bruce

## MATHEMATICAL TABLES;

CONTAINING THE

# COMMON, HYPERBOLIC, AND LOGISTIC LOGARITHMS,

ALSO

# SINES, TANGENTS, SECANTS, & VERSED SINES BOTH NATURAL AND LOGARITHMIC.

TOGETHER WITH

#### SEVERAL OTHER TABLES

USEFUL IN

### MATHEMATICAL CALCULATIONS.

To which is prefixed,

LARGE AND ORIGINAL HISTORY OF THE DISCOVERIES AND WRITINGS
RELATING TO THOSE SUBJECTS:

WITH THE

COMPLETE DESCRIPTION AND USE OF THE TABLES.

THE FIFTH EDITION.

## BY CHARLES HUTTON,

LL.D. F.R.S. &c.

AND LATE PROFESSOR OF MATHEMATICS IN THE ROYAL MILITARY ACADEMY, WOOLWICH.

#### LONDON:

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1811.



## PREFACE.

The very ample introduction, prefixed to the following collection of Mathematical Tables, supersedes the necessity of using many words here by way of preface, and leaves little more to be mentioned than the necessity and occasion of this work, with some account of the contents and mode of execution.

The undertaking was occasioned by the great incorrectness of all the editions of Sherwin's or Gardiner's tables, and more especially by the bad arrangement in the fifth or last edition. Finding, as well from the report of others, as from my own experience, that those editions (to say nothing of the very improper alteration in the form of the table of sines, tangents, and secants in the last of them) were so very incorrectly printed, the errors being multiplied beyond all tolerable bounds, and no dependence to be placed on them for any thing of real practice, I was led to undertake the painful office of preparing a correct edition of another similar work. And I was lucky enough to meet with a bookseller of sufficient spirit to be at the great expense of printing the book, as well as to allow me what I demanded for my trouble in preparing it; which demand, however, was nothing adequate to the great labour attending it, as I was well aware that the profits of the book would not enable him fully to reward my pains.

I have in the first place, therefore, used all the means in my power to render the work correct. I began by collating the third or best edition of Sherwin's tables, with some others of the most perfect works of the same kind, as Briggs's, Vlacq's, Gardiner's quarto book, &c; by which means I detected many errors in each of them, which had not before been discovered; and of these, between twenty and thirty were in the two editions of Gardiner's quarto work, printed at London in 1742, and at Avignon in 1770; the errata of which two books are here printed at the end

of the tables in this work. But, besides detecting many unknown errors in the said third edition of Sherwin, which was no more than was expected, I discovered, with no small surprise, that the last figures in the table of logarithms were not uniformly true to the nearest unit, except in a very few pages at the beginning and end of the table; though Mr. Gardiner, the editor of that edition, had made the table correct in that respect in his own quarto work before mentioned, which was also printed in the same year 1742, with the said third edition of Sherwin! The errors from this cause, in that third edition, amounted to several thousands: and they have continued to run through all the editions of Sherwin ever since that time! But they are here corrected. Nor has less attention been employed in correcting the press, than in previously correcting the copy; every proof having been several times read over, and compared with the best of the books hitherto printed, by several persons attending to

the reading of every proof-sheet.

But in giving this edition to the world, I was not satisfied with barely making it correct. I was aware that the materials themselves might be much improved; and I have accordingly enlarged, or otherwise greatly amended them, in various respects. Among the improvements of the old materials may be reckoned the following :-namely, in the large table of logarithms, the proportional parts, near the beginning, are more conveniently arranged, being now all placed in the same opening of the book where their corresponding differences occur; the logarithms to sixty-one figures are brought to their proper place in the book, and more conveniently disposed all in one page; the large table of sines tangents, and secants, is more commodiously arranged, and rendered more distinct and convenient for use; the natural sines, tangents, secants, and versed sines, being all separated from the others, and placed all together on the left-hand pages, and the logarithmic ones facing them on the righthand pages; the common differences, in both, set between the two columns to which each of them answers; and the versed sines here introduced into their proper place in the same pages with the sines, tangents, and secants. these, there are some other alterations in the new tables here given, and the reader will find a number of very important improvements in the description and use of the whole; espe-

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cially in the arithmetic of logarithms, and in the resolution of plane and spherical triangles, according to the present improved methods of calculation used by the Astronomer Royal, and other persons the most experienced in these matters.

The improvements in the tables, by the introduction of new matter, are both great and numerous. The tables numbered 2, 3, and 4, are here added, being an entire new set, with their differences, for finding numbers and logarithms to twenty places. The columns of common differences, in the pages of natural sines, &c, are now first introduced: As are also the tables of hyperbolic and logistic logarithms; the logarithmic sines and tangents for every second, in the first two degrees of the quadrant; together with a table of the length of arcs, a table to change common and hyperbolic logarithms from the one to the other, &c.—the uses and exem-

plifications of the whole being very amply detailed.

But the greatest alteration of all is the very extensive and new introduction here given, instead of the former inadequate and heterogeneous one, consisting of about 180 pages of new matter, on a methodical plan, containing the historical account and description of all trigonometrical writings, and the tables relating to that subject, both natural and logarithmic; besides the complete use of the tables in this work. Inventions are here ascribed to the proper authors, and their methods and improvements described and compared. This historical description will evidently appear to be the result of immense labour and reading. And, indeed, I have painfully gone over all the books which are here so minutely described; and that description with a detail in some degree adequate to their great merits; especially the works of Napier, Briggs, Kepler, &c; which was the more necessary, as the writings and methods of those great masters had not been any where properly described and discriminated, though they are in themselves highly curious and important.

These readings and commentaries have been carried on to an extent far beyond what was at first intended. But the tables having been in the press for the space of seven or eight years, I had thereby an opportunity of collecting and examining a still greater number of books; so that I was gradually led on, and my views and plans rendered still more.

extensive and complete. This delay, therefore, though in many respects it proved very inconvenient and disagreeable, has at length been the occasion of rendering these commen-

taries more perfect and satisfactory.

Besides what immediately relates to trigonometrical subjects, the reader will here find many other curious and uncommon articles, relating to their several authors and their discoveries, which have occurred in the course of my reading, and which appeared of too much consequence to be passed over unnoticed, in the analysis of their several compositions. Among these, is the discovery of the first author of the binomial theorem, and the differential method, which are due to Mr. Henry Briggs, whose writings are replete with ingenious and original matter, and are well deserving to be more generally known and studied than they have been for some time past.

This long course of examination and description, however, having been carried on for so many years, at different intervals, and interrupted by various avocations, and by business of different kinds, it will be no wonder if this circumstance may have occasioned some inequalities in the style and composition of this history; and for which, therefore, should any such appear, it is hoped the occasion will plead an

apology.

Woodwick, Feb. 1785.

••• IN the large table of common logarithms, when the first of the last four figures in any logarithm changes from a 9 to a 0, in any line, in which case the first three or constant figures are prefixed to the next following line, instead of these three, it often happens that young beginners by mistake take out the three constant figures next above the said line. To guard against this error, the figures in this edition are so contrived, that where the said change happens, a bar is placed over the cipher, thus ō, in order to catch the eye, and remind the learner that the change there takes place.—In this edition, too, the black rules formerly drawn across the pages, at the intervals of every five, or six, or ten lines, have been taken out, leaving thin white spaces across the pages instead of them. These improvements, besides that of new and better formed figures here now intro-

duced, and other attentions, contribute to render this edition of the tables more convenient and correct than either of the former ones.

> C. H. Dec. 1800.

IN this fifth edition, several of the tables have been much enlarged and improved, and some new ones introduced. Thus, the first large table of logarithms, which heretofore extended only to 100000 numbers, is now enlarged by one whole sheet more, being continued to 108000 numbers. Also the tables on pages 196, 199, 202, 216, are all extended to more numbers than formerly. A new and extensive table of Hyperbolic Logarithms is introduced after the old one ending page 211. The lists of errors, discovered in the best books of logarithms, that have been printed in this country and elsewhere, are more enlarged and corrected. By all which improvements, this collection of tables is rendered much more useful and valuable, than any of the former editions.

London, May 1811.

#### Errata, in the Introduction.

```
Page 121, line 21, for Lansihangel, read Lansihangel.

128, — 17, for log. \(\frac{1}{2}\), read log. \(\frac{2}{4}\).

149, — 4 from the bot. for \(\pi\)1. read \(x-1\).

157, — 5 from the bot. for \(\frac{1}{2}\). A+B, read \(s.\frac{1}{2}\). A+B.

In the Tables.

264, Nat. Tan. \(6^{\text{o}}\) 1' should be \(1408375\).

265, Log. Vers. \(822\) — \(8.0270578\).

271, L. Covers. 11 52 — \(9.9000202\).

237, Log. Tan. 44 60 — \(10.00000000\).
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Additional Errata in the French Tables of 1801.

In the logs. to 61 places, No. 14, col. 5, for 12992, read 12922.

In the Logistic Logarithms.

80' 60", for 8696, read 8697.

85 31, — 8481, — 8461.

85 33, — 8469, — 8459.

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## INTRODUCTION.

### I. OF TRIGONOMETRICAL TABLES.

NECESSITY, the fruitful mother of most useful inventions, gave birth to the various numeral tables which compose the following work. Astronomy has been cultivated from the earliest ages. The progress of that science, requiring numerous arithmetical computations of the sides and angles of triangles, both plane and spherical, gave rise to trigonometry; for those frequent calculations suggested the necessity of performing them by the property of similar triangles; and for the ready application of this property, it was necessary that certain lines described in and about circles, to a determinate radius, should be computed, and disposed in tables. Navigation, and the continually improving accuracy of astronomy, have also occasioned as perpetual an increase in the accuracy and extent of those tables. And this it is evident must ever be the case, the improvement of trigonometry uniformly following the improvement of those other useful sciences,

for the sake of which it is more especially cultivated. . .

The ancients performed their trigonometry by means of the chords of arcs, which, with the chords of their supplemental arcs, and the constant diameter, formed all species of right-angled triangles. Beginning with the radius, and the arc whose chord is equal to the radius, they divided them both into 60 equal parts, and estimated all other arcs and chords by those parts, namely, all arcs by 60ths of that arc, and all chords by 60ths of its chord or of the radius. At least this method is as old as the writings of Ptolemy, who used the sexagenary arithmetic for this division of chords and arcs, and for astronomical purposes.—And this, by-the-by, may be the reason why the whole circumference is divided into 360, or 6 times 60, equal parts or degrees, the whole circumference being equal to 6 times the first arc, whose chord is equal to the radius: unless perhaps we are rather to seek for the division of the circle in the number of days in the year; for thus, the ancient year consisting of 360 days, the sun or earth in each day described the 360th part of the orbit; and thence might arise the method of dividing every circle into 360 parts; and radius being equal to the chord of 60 of those parts, the sexagesimal division, both of the radius and of the parts, might thence arise. Trigonometry however must have been cultivated long before the time of Ptolemy; and indeed Theon, in his commentary on

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whiten about a century and a half before Christ, consistwhite the chords of circular arcs: which must have been write a books concerning subtenses or chords of arcs. He word make (of an arc), which he defined to be the right line which is double of the arc; so that his nadir of an arc was the word was sine of the same arc, or the chord of the double arc; and which is always the double sine for the nadir.

The radius has been since decimally divided; but the sexagesimal continues of the arc have continued in use to this day. Indeed our commentumen, Briggs and Gellibrand, having a general dislike to all sexagesimal divisions, made an attempt at some reformation of this custom, by dividing the degrees of the arcs, in their tables, into centesms or hundredth parts, instead of minutes or 60th parts. The same was also recommended by Victa, and others; and a decimal division of the whole quadrant might perhaps soon have followed, had it not been for the tables of Vlacq, which came out a little after, to every 10 seconds, or 6th parts of a minute.—But the complete reformation would be, to express all arcs by their real lengths, namely, in equal parts of the radius decimally divided: according to which method I have nearly completed a table of sines and tangents.

It is not to be doubted that many of the ancients wrote on the subject of trigonometry, as being a necessary part of astronomy; though few of their labours on that branch have come to our knowledge, and still fewer of the writings themselves have been handed down to us. We are in possession of the three books of Menelaus, on spherical trigonometry; but the six books are lost which he wrote upon chords, being probably a treatise on the construction of trigonometrical tables.

The trigonometry of Menelaus was much improved by Ptolemy (Claudius Ptolomæus) the celebrated philosopher and mathematician. He was born at Pelusium, taught astronomy at Alexandria in Egypt, and died in the year of Christ 147, being the 78th year of his age. In the first book of his Almagest, Ptolemy delivers a table of arcs and chords, with the method of construction. This table contains 3 columns; in the first are the arcs to every half degree or 30 minutes; in the 2d are their chords, expressed in degrees, minutes and seconds, of which degrees the radius contains 60; and in the 3d column are the differences of the chords answering to 1 minute of the arcs, or the 30th part of the differences between the chords in the 2d column. In the construction of this table, among others, Ptolemy shows, for the first time that we know of, this property of any quadrilateral inscribed in a circle, namely, that the rectangle under the two diagonals, is equal to the sum of the two rectangles under the opposite sides.

This method of computation, by the chords, continued in use till about the middle centuries after Christ; when it was changed for that of the sines, which were about that time introduced into trigonometry

This has lately been done by the French mathematicians, in their new logarithmic tables.

by the Arabians, who in other respects much improved this science, which they had received from the Greeks, introducing, among other things, the three or four theorems, or axioms, which are used at present

as the foundation of our modern trigonometry.

The other great improvements that have been made in this branch, are due to the Europeans. These improvements they have gradually introduced since they received this science from the Arabians. And though these latter people had long used the Indian or decimal scale of arithmetic, it does not appear that they varied from the Greek or sexagesimal division of the radius, by which the chords and sines were expressed.

This alteration, it is said, was first made by George Purbach, who was so called from his being a native of a place of that name between Austria and Bavaria. He was born in 1423, studied mathematics and astronomy at the university of Vienna, where he was afterwards professor of those sciences, though but for a short time, the learned world quickly suffering a great loss by his immature death, which happened in 1462, at the age of 39 years only. Purbach, besides enriching trigonometry and astronomy with several new tables, theorems, and observations, supposed the radius to be divided into 600,000 equal parts, and computed the sines of the arcs, for every 10 minutes, in such equal

parts of the radius, by the decimal notation.

This project of Purbach was completed by his disciple, companion, and successor, John Muller, or Regiomontanus, who was so called from the place of his nativity, the little town of Mons Regius, or Koningsberg, in Franconia, where he was born in the year 1436. Regiomontanus not only extended the sines to every minute, the radius being 600,000, as designed by Purbach, but afterwards, disliking that scheme evidently imperfect, he computed them likewise to the radius 1,000,000, for every minute of the quadrant. He also introduced the tangents into trigonometry, the canon of which he called facundus, because of the many and great advantages arising from them. Besides these, he enriched trigonometry with many theorems and precepts. Through the benefit of all these improvements, except for the use of logarithms, the trigonometry of Regiomontanus is but little inferior to that of our own time. His treatise on both plane and spherical trigonometry, is in 5 books; it was written about the year 1464, and printed in folio at Nuremburg, in 1533. And in the fifth book are also various problems concerning rectilinear triangles, some of which are resolved by means of algebra: a proof that this science was not wholly unknown in Europe before the treatise of Lucas de Burgo. Regiomontanus died in 1476, at the age of 40 years only; being then at Rome, whither he had been invited by the Pope, to assist in the reformation of the Calendar, and where it was suspected he was poisoned by the sons of George Trebizonde, in revenge for the death of their father, which was said to have been caused by the grief he felt on account of the criticisms made by Regiomontanus on his translation of Ptolemy's Almagest.

Soon after this, several other mathematicians contributed to the improvement of trigonometry, by extending and enlarging the tables,

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though few of their works have been printed; and particularly John Werner of Nuremburg, who was born in 1468, and died in 1528, and

who it seems wrote five books on triangles.

About the year 1500, Nicholas Copernicus, the celebrated modern restorer of the true solar system, wrote a brief treatise on trigonometry, both plane and spherical, with the description and construction of the canon of chords, or their halves, nearly in the manner of Ptolemy; to which is subjoined a canon of sines, with their differences, for every 10 minutes of the quadrant, to the radius 100,000. This tract is inserted in the first book of his Revolutiones Orbium Calestium, first printed in folio at Nuremburg, 1513. It is remarkable that he does not call these lines snues, but semisses subtensurum, namely of the double arcs,—Copernicus was born at Thorn in 1473, and died in 1543.

In 1553 was published the Canon Facundus, or table of tangents, of Erasmus Reinhold, professor of mathematics in the academy of Wurtemburgh. He was born at Salfieldt in Upper Saxony, in the

year 1511, and died in 1553.

To Francis Maurolye, abbot of Messina in Sicily, we owe the introduction of the Tabula Benefica, or canon of secants, which came out about the same time, or a little before. But Lausberg erroneously scribes this to Rheticus. And the tangents and secants are both ascribed to Reinhold, by Briggs, in his Mathematica ab antiquiz minus enguita, (p. 30. Appendix to Ward's Lives of the Professors of Gresham College.)

Francis Vieta was born in 1510, at Fontenai, or Fontenai-le-Comte, in Lower Poitou, a province of France. He was master of requests at Paris, where he died in 1603, being the 63d year of his age. Among other branches of learning in which he excelled, he was one of the most respectable mathematicians of the 16th century, or indeed of any age. Itis writings abound with marks of great originality, and the finest genius, as well as intense application. Among them are several pieces relating to trigonometry, which may be found in the collection of his works published at Leyden in 1646, by Francis Schooten, besides another large and separate volume in folio, published in the author's litetime at Paris in 1579, containing trigonometrical tables, with their construction and use; very elegantly printed, by the king's mathematical printer, with beautiful types and rules; the differences of the sines, tangents, and secants, and some other parts, being printed with red ink, for the better distinction; but inaccurately executed, as he himself testilies in page 323 of his other works above mentioned. The first part of this currous volume is cutated Canon Mathematicus, seu ad Trançala, com Appendicibus, and contains a great variety of tables useful in trigonometry. The first of these is what he more peculiarly calls Concu Mathematicus, sea ad Trungain, which contains all the sines, tangents, and secants for every minute of the quadrant, to the radius 100,000, with all their differences; and towards the end of the quadrant the tangents and secants are extended to 8 or 9 places of figures. They are arranged like our tables at present, increasing on the left hand side to 45 degrees, and then returning upwards by the right hand side to 90 degrees; so that each number and its complement stand on the same line. But here the canon of what we now call tangents is denominated facundus, and that of the secants facundissimus. For the general idea prevailing in the form of these tables, is, not that the lines represented by the numbers are those which are drawn in and about a circle, as sines, tangents, and secants, but the three sides of right-angled triangles; this being the way in which those lines had always been considered, and which still continued for some time longer. And therefore he considers the canon as a series of plane right-angled triangles, one side being constantly 100,000; or rather as three series of such triangles, for he makes a distinct series for each of the three varieties, namely, according as the hypotenuse, or the base, or the perpendicular, is represented by the constant number 100,000, which is similar to the radius. Making each side constantly 100,000, the other two sides are computed to every magnitude of the acute angle at the base, from 1 minute up to 90 degrees, or the whole quadrant. Each of the three series therefore consists of two parts, as representing the two variable sides of the triangle. When the hypotenuse is made the constant number 100,000, the two variable sides of the triangle are the perpendicular and base, or our sine and cosine; when the base is 100,000, the perpendicular and hypotenuse are the variable parts, forming the canon feecundus et feecundissimus, or our tangent and secant; and when the perpendicular is made the constant 100,000, the series contains the variable base and hypotenuse, or also canon fæcundus et fæcundissimus, or our cotangent and cosecant. course, therefore, the table consists of 6 columns, 2 for each of the 3 series, besides the two columns on the right and left for minutes. from 0 to 60 in each degree.

The second of these tables is similar to the first, but all in rational numbers, consisting, like it, of 3 series of 2 columns each; the radius, or constant side of the triangle, in each series, being 100,000, as before; and the other two sides accurately expressed in integers and rational So that we have here the canon of accurate sines, vulgar fractions. tangents, and secants; or a series of about 4300 rational right-angled triangles. But then the several corresponding arcs of the quadrant, or angles of those triangles, are not expressed. Instead of them, are inserted, in the first column next the margin, a series of numbers decreasing from the beginning to the end of the quadrant, which are called numeri primi baseos. It is from these numbers that Vieta constructs the sides of the 3 series of right-angled triangles, one side in each series being the constant number 100,000, as before. The theorems by which these series of rational triangles are computed from the numeri primi baseos, or marginal numbers, are inserted all in one page at the end of this second table, and in the modern notation they may be briefly expressed thus. Let p be the primary or marginal number on any line, and r the constant radius or number 100,000; then if rdenote the hypotenuse of the right-angled triangle, the perpendicular and base, or the sine and cosine, will be respectively,

$$\frac{pr}{4p^2+1}$$
 and  $r-\frac{2r}{4p^2+1}$ , (which last we may reduce to  $\frac{4p^2-1}{4p^2+1}r$ ).

When r denotes the base of the right-angled triangle, then the perpendicular and hypotenuse, or the tangent and secant, are expressed by

$$\frac{pr}{\frac{1}{4}p^2-1}$$
 and  $r+\frac{2r}{\frac{1}{4}p^2-1}$ , (which last we may reduce to  $\frac{\frac{1}{4}p^4+1}{\frac{1}{4}p^2-1}r$ );

and when r denotes the perpendicular of the right-angled triangle, the base and hypotenuse, or the cotangent and cosecant, are then expressed by

 $\frac{1}{4}pr - \frac{r}{p}$  (or  $\frac{\frac{1}{4}p^2 - 1}{p}r$ ), and  $\frac{1}{4}pr + \frac{r}{p}$  (or  $\frac{\frac{1}{4}p^2 + 1}{p}r$ ).

So that Vieta's general values will be as we have here collected them together in the following expressions, immediately under the words sine, cosine, &c.; and just below Vieta's forms I have here placed the others to which they reduce and are equivalent, which are more contracted, though not so well adapted to the expeditious computation as Vieta's forms.

Sine	Cosine	Tangent	Secant	Cotangent	Cosecant
pr	2r	pr	2r	Inc - r	Ior I
#p°+1	$\frac{1}{1}p^2+1$	₹p³-1	$\frac{1}{4p^3-1}$	$\frac{4p}{p}$	$\frac{p}{p}$
<u> </u>	$\frac{2p^2-1}{4n^2+1}r$	$\frac{p}{4n^2-1}r$	$\frac{3p+1}{4p^2-1}r$	$\frac{3p^2-1}{p}r$	$\frac{2p^2+1}{2}r$
4P T	4P T 1	41	42	P	P

All these expressions, it is evident, are rational; and by assuming p of different values, from the first theorems Vieta computed the corresponding sides of the triangles, and so expressed them all in integers and rational fractions.

To the foregoing principal tables are subjoined several other smaller tables, or short specimens of large ones; as, a table of the sines, tangents, and secants for every single degree of the quadrant, with the corresponding lengths of the arcs, the radius being 100,000,000; another table of the sines, tangents, and secants, for each degree also, expressed in sexagesimal parts of the radius, as far as the 3d order of parts; also two other tables for the multiplication and reduction of

sexagesimal quantities.

The second part of this volume is entitled Universalium Inspectionum ad Canonem Mathematicum Liber singularis. It contains the construction of the tables, a compendious treatise on plane and spherical trigonometry, with the application of them to a great variety of curious subjects in geometry and mensuration, treated in a very learned manner; as also many curious observations concerning the quadrature of the circle, the duplication of the cube, &c. Computations are here given of the ratio of the diameter of a circle to the circumference, and of the length of the sine of 1 minute, both to many places of figures; by which he found that the sine of 1 minute is between 2,908,881,959 and 2,908,882,056; also, the diameter of a circle being 1000, &c. that the perimeter of the inscribed and circumscribed polygon of 393216 sides, will be as follows:

perim. of the inscrib. polygon \$14,159,265,35 perim. of the circum. polygon \$14,159,265,37

and that therefore the circumference of the circle lies between those two numbers.

Though no author's name appears to the volume I have been desending, there can be no doubt of its being the performance of Vieta; fr, besides bearing evident marks of his masterly hand, it is mentioned by himself in several parts of his other works collected by Schooten, and in the preface to those works by Elzevir the printer of them: as also in M. Montucla's Histoire des Mathématiques, which are the only notices I have ever seen or heard of concerning this book, the copies of which are so rare, that I never saw one besides that which is in my own possession.

In the other works of Vieta, published at Leyden in 1646, by Schooten, as mentioned above, there are several other pieces relating to trigonometry; some of which, on account of their originality and importance, are very deserving of particular notice in this place. And first, the very excellent theorems, here first of all given by our author, relating to angular sections, the geometrical demonstrations of which are supplied by that ingenious geometrician, Alexander Anderson, then professor of mathematics at Paris, but a native of Aberdeen, and cousin-german to Mr. David Anderson, of Finzaugh, whose daughter was the mother of the celebrated James Gregory, inventor of the Gregorian telescope. We find here, theorems of the chords (and consequently sines) of the sums and differences of arcs; and for the chords of arcs that are in arithmetical progression, namely, that the first or least chord is to the 2d, as any one after the 1st, is to the sum of the two next less and greater: for example, as the 2d to the sum of the 1st and 3d, and as the 3d to the sum of the 2d and 4th, and as the 4th to the sum of the 3d and 5th, &c.; so that, the 1st and 2d being given, all the rest are found from them by one subtraction and one proportion for each, in which the 1st and 2d terms are constantly the same. Next are given theorems for the chords of any multiples of a given arc or angle, as also the chords of their supplements to a semicircle, which are similar to the sines and cosines of the multiples of given angles; and the conclusions from them are expressed in this manner; 1st, that if c be the chord of the supplement of a given are a, to the radius 1, then the chords of the supplements of the multiple ares will be as in the annexed table:

signs are alternately + and -; that the vertical columns of numeral coefficients to the terms of the chords, are the several orders of figurate numbers, which he calls triangular, pyramidal, triangulo-triangular, triangulo-pyramidal, &c. generated in the ordinary ways he continued caldidates the ordinary way by continual additions;
not indeed from unity, as in the
CENERATION OF POWERS, but beginning with the number 2; and

where the author observes that the

Atco Chords of the Supplements 14 e-2 2a  $c^3-3c$ Sa 5a c<sup>3</sup> - 4c<sup>3</sup> + 2 5a c<sup>3</sup> - 5c + 5c 6a c<sup>3</sup> - 6c<sup>4</sup> + 9c<sup>4</sup> - 2  $e^{7} - 7c^{1} + 14c^{3} - 7c$  &cc. 70

that the powers observe always the same progression: secondly, that if the chord of an arc a be called 1, and d the chord of the double arc 2a, then the chords of the series

are 2a, then the chords of the series of multiple ares will be as in this table; where the author remarks as before on the law of the powers, signs, and coefficients; these being the orders of figurate numbers, raised from unity by continual additions, after the manner of the genesis of powers, which generation in that way he speaks of as a thing generally known, but without giving any hint how the coefficients of the terms of any powers.

Ares Chords, 1 a 1 2a d 3a  $d^{1}-1$ 4a  $d^{3}-2d$ 5a  $d^{4}-3d^{3}+1$ 6a  $d^{5}-4d^{3}+3d$ 7a  $d^{5}-5d^{6}+6d^{6}-1$ 8a  $d^{7}-6d^{5}+10d^{5}-4d$ &c.

efficients of the terms of any power may be found from one another only, and independent of those of any other power, as it was afterwards, and first of all, I believe, done by Henry Briggs, about the year 1600: and 3dly, that if C be the chord of any are a, to the radius 1, then the series of the chords and supplemental chords of the multiple

arcs will be thus; where the values are alternately chords, and chords of the supplements of the arcs on the same line, and the law of the powers and coefficients as before, but every alternate couplet of lines having their signs changed.

Another curious theorem is added to the above, for finding the sum of all these chords drawn in a semicircle, from one end of the diameter to every point in the circumference, those points dividing the circumference into any number of equal parts; namely, as the least chord is to the diameter, so is the sum of the said least chord and diameter and greatest chord, to double the sum of all the chords including the diameter as one of them.

As the above theorems are chiefly adapted for the chords of multiple angles, a few problems and remarks are then added (whether by Victa or Anderson does not clearly appear, but I think by the latter) concerning the application of them, to the section of angles into submultiples, and thence to the computation of the chords or gines, or a canon of triangles. The general precept for the angular sections is this: select one of the above equations adapted to the proper number of the section, in which will be concerned the powers of the unknown or required quantity, as high as the index of the section; and from this equation and that quantity by the known methods for the resolution of equations, Examples are given of three different sections, namely, for 3, 5, and 7 equal parts, the forms of which are respectively these

$$SC - C^{3} -$$

where g is the chord of the given arc or angle, and C the required chord of the 3d, 5th, or 7th part of it. And it is shown, geometrically, that the first of these equations has 2 real positive roots, the second 3, and the last 4; also from the same principles the relations of

these roots are pointed out.

The method then annexed for constructing the canon of sines, from the foregoing theorems, is thus: By dividing the radius in extreme-and-mean ratio, is obtained the sine of 18 degrees; this quinquisected, gives the sine of 3° 36'. Again, by trisecting the arc of 60°, there is obtained the sine of 20°; this again trisected gives that of 6° 10'; and this bisected gives that of 3° 20': Then, by the theorem for the difference of two arcs, there will be found the sine of 16', the difference between 3° 36' and 3° 20': Lastly, by four successive bisections, will at length be found the sines of 8', 4', 2', and 1'. This last being found, the sines of its multiples, and again of the multiples of these multiples, &c. throughout the quadrant, are to be taken by the proper theorems before laid down. And the same subject is still further pursued and explained, in the tract containing the answer given by Vieta, to the problem proposed to the whole world by Adrianus Romanus.

In the same collection of Vieta's works, from page 400 to 432, is given a complete treatise on practical trigonometry, containing rules for resolving all the cases of plane and spherical triangles, by the Canon

Mathematicus, or table of sines, tangents and secants.

The next authors whose labours in this way have been printed, are Rheticus, Otho, and Pitiscus; to all of whom we owe very great

improvements in trigonometry.

But the large work, or whole trigonometrical canon, computed by Rheticus, was published in 1596 by Valentine Otho, mathematician to the Electoral Prince Palatine. This vast work contains all the three series for the whole canon of right-angled triangles (being similar to the sines, tangents, and secants, by which names I shall call them), with all the differences of the numbers, to the radius 10000000000. Prefixed to these tables, are several books on their construction and use, in plane and spherical trigonometry, &c. Of these, the first three are by Rheticus himself; namely book the first, containing the demonstrations of 9 lemmas, concerning the properties of certain lines drawn in and about circles: the 2d book contains 10 propositions, relating to the sines and cosines of arcs, together with those of their sums and differences, their halves and doubles, &c. The 3d book teaches, in 13 pro-

completed.

The remaining books in this work are by the editor Otho; namely, a treatise, in one book, on right-angled plane triangles, the cases of which are resolved by the tables: then right-angled spherical trigonometry, in four books; next oblique spherical trigonometry, in five books; and lastly, several other books, containing various spherical

problems.

Next after the above are placed the tables themselves, containing the sines, tangents, and secants, for every 10 seconds in the quadrant, with all the differences annexed to each, in a smaller character. The numbers however are not called sines, tangents, and secants, but, like Vieta's before described, they are considered as representing the sides of right-angled triangles, and titled accordingly. They are also, in like manner, divided into three series, namely, according as the radius, or constant side of the triangle, is made the hypotenuse, or the greater leg, or the less leg of the triangle. When the hypotenuse is made the constant radius 10000000000, the two columns of this case, or series, are called the perpendicular and base, which are our sine and oosine; when the greater leg is the constant radius, the two columns of this series are titled hypotenuse and perpendicular, which are our secant and tangent; and when the less leg is constant, the two columns in this case are called hypotenuse and base, which are our cosecant and cotangent. After this large canon, is printed another smaller table, which is said to be the two columns of the third series, or cosecants and cotangents, with their differences, but to 3 places of figures less, or to the radius 10000000. But 1 cannot discover the reason for adding this less table, even if it were correct, which is very

far from being the case, the numbers being uniformly erroneous, and different from the former through the greatest part of the table.

Towards the close of the 16th century, many persons wrote on the subject of trigonometry, and the construction of the triangular canon. But, their writings being seldom printed till many years afterwards, it is not easy to assign their order in respect of time. I shall therefore mention but a few of the principal authors, and that without pretending to any great precision on the score of chronological precedence.

In 1591 Philip Lansberg first published his Geometria Triangulorum, in four books, with the canon of sines, tangents, and secants; a
brief, but very elegant work; the whole being clearly explained: and
it is perhaps the first set of tables titled with those words. The sines,
tangents and secants of the arcs to 45 degrees, with those of their
complements, are each placed in adjacent columns, in a very commodious manner, continued forwards and downwards to 45 degrees, and
then returning backwards and upwards to 90 degrees: the radius is
100000000, and a specimen of the first page of the table is as follows:

0	8	inus		Fangens	. 8	ecans	
0	q	10000000	0	infinitum.	10000000	infinitum.	60
1	2909	9999999	2909	34377466738	10000000	34377468193	59
2	5818	9999998	5818	17188731915	10000002	17188734924	58
3	8727	9999996	8727	11459152994	10000004	11459157357	57
4	11636	9999993	11636	8594363048	10000007	8594368866	56
5	14544	9999989	14544	6875488693	10000011	6875495966	<b>5</b> 5
åc.				•			&c.
							89

Of this work, the first book treats of the magnitude and relations of such lines as are considered in and about the circle, as the chords, sines, tangents, and secants. In the second book is delivered the construction of the trigonometrical canon, by means of the properties laid down in the first book. After which follows the canon itself. And in the third and fourth books is shown the application of the table, in the resolution of plane and spherical triangles—Lansberg, who was born in Zealand 1561, was many years a minister of the gospel, and died at Middleburg in 1632.

The trigonometry of Bartholomew Pitiscus was first published at Francfort in the year 1599. This is a very complete work; containing, besides the triangular canon, with its construction and use in resolving triangles, the application of trigonometry to problems of surveying, altimetry, architecture, geography, dialling, and astronomy. The construction of the canon is very clearly described: And, in the third edition of the book, in the year 1612, he boasts to have added in this part arithmetical rules for finding the chords of the 3d, 5th, and other uneven parts of an arc, from the chord of that arc being given; saying, that it had been heretofore thought impossible to give such rules: But, after all, those boasted methods are only the application of

the double rule of False-Position to the then known rules for finding the chords of multiple ares; namely, making the supposition of some number for the required chord of a submultiple of any given are, then, from this assumed number, computing what will be the chord of its multiple are, which is to be compared with that of the given are; then the same operation is performed with another supposition, and so on, as in the double rule of position. The canon contains the sine, tangent, and secant, for every minute of the quadrant, in some parts to 7 places of figures, in others to 8; as also the differences for every 10 seconds. The sines, tangents, and secants, are also given for every 10 seconds in the first and last degree of the quadrant, for every 2 seconds in the first and last 10 minutes, and for every single second in the first and last minute. In this table the sines, tangents, and secants are continued downwards on the left-hand pages as far as to 45 degrees, and then returned upwards on the right-hand pages, so that the complements are always on the same line in the opposite or facing pages.

The nonhematical works of Christopher Clavius (a German jesuit,

who was born at Bamberg in 1537) in five large folio volumes, were printed at Moguntia, or Mentz, in 1612, the year in which the author died, at the age of 75. In the first volume we find a very ample and circumstantial treatise on trigonometry, with Regiomontanus's canon of sines, for every minute, as also canons of tangents and secants, each in a separate talle, to the radius 10000000, and in a form continued forwards all the way up to 90 degrees. The explanation of the construction of the tables is very complete, and is chiefly extracted from Ptolemy, Purbach, and Regiomontanus. The sines have the differences set down for each second, that is, the quotients arising from the differences of the sines divided by 60.

About the year 1600, Ludolph van Collen, or à Ceulen, a respect-able Dutch mathematician, wrote his book De Circulo et Adscriptis, in which he treats fully and ably of the properties of lines drawn in and about the circle, and especially of chords or subtenses, with the construction of the cauon of sines. The geometrical properties from which these lines are computed, are the same as those used by former writers; but his mode of computing and expressing them is different from theirs; for they actually extracted all the roots, &c, at every step, or single operation, in decimal numbers; but he retained the radical expressions to the last, making them however always as simple as possible thus, for instance, he determines the sides of the polygons of 4, 8, 10, 32, &c, sides, inscribed in the circle whose radius is 1, to

be as in the table here annexed: where the print before any figure (as 4'.2) signifies the root or all that follows it; we the last line is in our notation the same as

the perfect management of such surds was then not generally

No. of	Length of each side.
4 8 16	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
8c.	√2-√2+√2-√2 &c.

known, he added a very neat tract on that subject, to facilitate the computations. These, together with other dissertations on similar geometrical matters, were translated from the Dutch language, into Latin, by Willebrord Snell, and published at (Lugd. Batav.) Leyden in 1619. It was in this work that Ludolph determined the ratio of the diameter to the circumference of the circle, to 36 figures, showing that, if the diameter be 1, the circumference will be

greater than 3.14159 26535 89793 23846 26433 83279 50288, but less than 3.14159 26535 89793 23846 26433 83279 50289; which ratio was, by his order, in imitation of Archimedes, engraven on his tomb-stone, as is witnessed by the said Snell, pa. 54, 55, Cyclometricus, published at Leyden two years after, in which he treats the same subject in a similar manner, recomputing and verifying Ludolph's numbers. And in the same book, he also gives a variety of geometrical approximations, or mechanical solutions, to determine very nearly the lengths of arcs, and the areas of sectors and segments of circles.

Besides the Cyclometricus, and another geometrical work (Apollonius Battavus) published in 1608, the same Snellius wrote also four others, doctrine triangulorum canonicæ, in which is contained the canon of secants, and in which the construction of sines, tangents, and secants, together with the dimension or calculation of triangles, both plane and spherical, are briefly and clearly treated. After the author's death, this work was published in 8vo, at Leyden 1627, by Martinus Hortensius, who added to it a tract on surveying and spherical problems. Willebrord Snell was born in 1591 at Royen, and died in 1626, being only 35 years of age. He was professor of mathematics in the university of Leyden, as was also his father Rodolph Snell.

In 1627, Francis van Schooten published, at Amsterdam, in a small neat form, tables of sines, tangents, and secants, for every minute of the quadrant, to 7 places of figures, the radius being 10000000; together with their use in plane trigonometry. These tables have a great character for their accuracy, being declared by the author to be without one single error. This however must not be understood of the last figure of the numbers, which I find are very often erroneous, sometimes in excess and sometimes in defect, by not being always set down to the nearest unit. Schooten died in 1659, while he had the second volume of his second edition of Descartes' geometry in the press. He was also author of several other valuable works in geometry and other branches of the mathematics.

The foregoing are the principal writers on the tables of sines, tangents, and secants, before the invention of logarithms, which happened about this time, namely, soon after the year 1600. Tables of the natural numbers were now all completed, and the methods of computing them nearly perfected: And therefore, before entering on the discovery and construction of logarithms, we shall stop here a little, to give a summary of the manner in which the said natural sines, tangents, and secants, were actually computed, after having been gradually improved from Hipparchus, Menelaus, and Ptolemy, who used

only the chords, down to the beginning of the 17th century, when sines, tangents, secants, and versed sines were in use, and when the method hitherto employed had received its utmost improvement. In this explanation, I shall here first enumerate the theorems by which the calculations were made, and then describe the application of them to the computation itself.

Theorem 1. The square of the diameter of a circle, is equal to the sum of the squares of the chord of an arc, and of the chord of its

supplement to a semicircle.

2. The rectangle under the two diagonals of any quadrilateral inscribed in a circle, is equal to the sum of the two rectangles under the opposite sides.

The sum of the squares of the sine and cosine (hitherto called

the sine of the complement), is equal to the square of the radius.

4. The difference between the sines of two arcs that are equally distant from 60 degrees, or 2 of the whole circumference, the one as much greater as the other is less, is equal to the sine of half the differences of those arcs, or of the difference between either arc and the said are of 60 degrees.

5. The sum of the cosine and versed sine, is equal to the radius.

6. The sum of the squares of the sine and versed sine, is equal to the square of the chord, or to the square of double the sine of half the arc.

7. The sine is a mean proportional between half the radius and the

vened sine of double the arc.

8. A mean proportional between the versed sine and half the radius, is equal to the sine of half the arc.

9. As radius is to the sine, so is twice the cosine to the sine of twice

the arc.

- 10. As the chord of an arc, is to the sum of the chords of the single and double are, so is the difference of those chords, to the chord of thrice the arc.
- 11. As the chord of an arc, is to the sum of the chords of twice and thrice the are, so is the difference of those chords, to the chord of five times the arc.
- 12. And in general, as the chord of an arc, is to the sum of the chords of n times and n+1 times the are, so is the difference of those chords, to the chord of \$n+1 times the arc.
- 13. The sine of the sum of two ares, is equal to the sum of the products of the sine of each multiplied by the cosine of the other, and divided by the radius.

14. The sine of the difference of two arcs, is equal to the difference

of the said two products divided by radius.

- 15. The cosine of the sum of two arcs, is equal to the difference between the products of their sines and of their cosines, divided by radius.
- 16. The cosine of the difference of two ares, is equal to the sum of the said products divided by radius."
  - 17. A small are is equal to its chord or sine, nearly.
  - 18. As cosine is to sine, so is radius to tangent,

19. Radius is a mean proportional between the tangent and co-

togent.

20. Half the difference between the tangent and cotangent of an see, is equal to the tangent of the difference between the arc and its complement. Or, the sum arising from the addition of double the tangent of an arc with the tangent of half its complement, is equal to tangent of the sum of that arc and the said half complement.

21. The square of the secant of an arc, is equal to the sum of the

squares of the radius and tangent.

22. Radius is a mean proportional between the secant and cosine. Or, as cosine is to radius, so is radius to secant.

23. Radius is a mean proportional between the sine and cosecant.

24. The secant of an arc, is equal to the sum of its tangent and the tangent of half its complement. Or, the secant of the difference between an arc and its complement, is equal to the tangent of the said difference added to the tangent of the less arc.

25. The secant of an arc, is equal to the difference between the tangent of that arc and the tangent of the arc added to half its complement. Or the secant of the difference between an arc and its complement, is equal to the difference between the tangent of the said

difference and the tangent of the greater arc.

From some of these 25 theorems, extracted from the writers before mentioned, and a few propositions of Euclid's elements, they compiled the whole table of sines, tangents, and secants, nearly in the following manner. By the elements were computed the sides of a few of the regular figures inscribed in a circle, which were the chords of such parts of the whole circumference as are expressed by the number of sides, and therefore the halves of those chords the sines of the halves of the arcs. So, if the radius be 100000000, the sides of the following figures will give the annexed chords and sines.

The figure	Arc sub-	Its chord,	Half	Its sine,
	tended	or side	arc	or ‡ chord
Triangle Square Pentagon Hexagon Decagon Quindecagon	120°	17390508	60•	8660254
	90	14142136	45	7071068
	72	11755705	36	5977853
	60	10000000	30′	5000000
	36	6180340	18	3090170
	. 24	4158234	19	2079117

Of some, or all of these, the sines of the halves were continually then by theorem the 6th, 7th, or 8th, and of their complements the 8d; then the sines of the halves of these, and of their complements, by the same theorems; and so on, alternately of the halves and complements, till they arrived at an arc which is nearly equal to it sine. Thus, beginning with the above arc of 12 degrees, and its ine, the halves were obtained as follows:

The h	alves	Their Sines
6*	•	1045285
3	•	523360
1	30	261769
	45	130696
The of t	-	
84		9945918
87		9986293
88	30	9996573
89	15	9999143
The lof t	alves hese	
42		6691306
21		3583679
10	<b>30</b>	1822355
5	15	915016
43	30	6883545
21	45	3705574
44	15	6977905
J		

I	omp. hese	Sines
45°	•	7431448
69		9335804
79	<b>30</b>	9839549
84	45	9956049
46	<b>30</b>	7953744
68	15	9288095
45	45	7163019
1	ralves	
of t	hese	I
54		4067360
34	<b>30</b>	5664069
17	15	2965416
39	45	<b>635433</b> 0
23	15	3947439
The	omp.	
66	-	9135455
55	30	8341563
79	45	9550199
50	15	7688418
66	45	9187915

_		-
The b	alves	Sines
3 <b>3°</b>	•	5446390
16	30	2840153
8	15	1434926
97	45	4656145
Con	108.	·
57		8386706
73	30	9588197
81	45	9896514
<b>es</b>	15	8849876
Hal	ves	
28	30	4771588
14	15	2461533
36	45	5983246
Com	ips.	
61	30	8788171
73	45	9692309
53	15	8012538
Ha	lf	
30	45	5112931
Cor	np.	
59	15	8594064

Now these last two sines being evidently in the same ratio as their arcs, the sines of all the less single minutes will be found by single proportion. So the 45th part of the sine of 45', gives 2909 for the sine of 1'; which may be doubled, tripled, &c, for the sines of 2', 3', &c, up to 45'.

Then, from all the foregoing primary sines, by the theorems for halving, doubling, or tripling, and by those for the sums and differences, the rest of the sines are deduced, to complete the quadrant.

But having thus determined the sines and cosines of the first 30° of the quadrant, that is, the sines of the first and last 30°, those of the intermediate 30° are, by theor. 4, found by one single subtraction for each sine.

The sines of the whole quadrant being thus completed, the tangents are found by theor. 18, 19, 20, namely, for one half of the quadrant by the 18th and 19th, and the other half by one single addition or subtraction for each, by the 20th theorem.

And lastly by theor. 24 and 25, the secants are deduced from the

tangents, by addition and subtraction only.

Among the various means used for constructing the canon of sines, tangents, and secants, the writers above enumerated seem not to have

been possessed of the method of differences, so profitably used since, and first of all I believe by Briggs, in computing his trigonometrical canon and his logarithms, as we shall see hereafter, when we come to describe those works. They took however the successive differences of the numbers after they were computed, to verify or prove the truth of them; and if found erroneous, by any irregularity in the last differaces, from thence they had a method of correcting the original numbers themselves. At least, this method is used by Pitiscus, Trig. 2, where the differences are extended to the third order.——In pege 44 of the same book also is described, for the first time that I: know of, the common notation of decimal fractions, as now used. And this same notation was afterwards described and used by baron Napier, in positio 4 and 5 of his posthumous works, on the construction of logarithms, published by his son in the year 1619. But the decimal fractions themselves may be considered as having been introduced by Regiomontanus, by his decimal division of the radius &c, of the circle; and from that time gradually brought into use: but continued long to be denoted after the manner of vulgar fractions, by a line drawn between the numerator and denominator, which last however was soon omitted, and only the numerator set down, with the line below it; thus it was first 31-15, then 31-15; afterwards, omitting the line, it became 3135, and lastly 3135, or 31.35, or 31.35: as may be traced in the works of Vieta, and others since his time, gradually into the present century.

Having often heard it remarked, that the word sine, or in Latin and French sinus, is of doubtful origin; and as the various accounts which I have seen of its derivation are very different from one another, it may not be amiss here to employ a few lines on this matter. authors say, this is an Arabic word, others that it is the single Latin word sinus; and in Montucla's Histoire des Mathematiques it is conjectured to be an abbreviation of two Latin words. The conjecture is thus expressed by the ingenious and learned author of that excellent history, at pa. xxxiii, among the additions and corrections of the first volume: "A l'occasion des sinus dont on parle dans cette page, comme d'une invention des Arabes, voici un étymologie de ce nom, tout-à-fait heureuse et vraisemblable. Je la dois à M. Godin, de l'Académie Royale des Sciences, Directeur de l'Ecole de Marine de Cadix. sinus sont, comme l'on sçait, des moitiés de cordes; et les cordes en Latin se nomment inscriptæ. Les sinus sont donc semisses inscriptarum, ce que probablement on écrivit ainsi pour abréger, S. Ins. Delà ensuite s'est fait par abus le mot de sinus.' Now, ingenious as this conjecture is, there appears to be little or no probability for the truth of it. For, in the first place, it is not in the least supported by quotations from any of the more early books, to show that it ever was the practice to write or print the words thus, S. Ins. on which the conjecture is founded. Again, it is said the chords are called in Latin inscriptæ; and it is true that they sometimes are so: but I think they are more frequently called subtensæ, and the sines semisses subtensarum

That is, in the first edition of his book. But he has omitted this improbable conjecture in the new edition of 1799.

of the double arcs, which will not abbreviate into the word sinus. But it may be said, what reason have we to suppose that this word is either a Latin word, or the abbreviation of any Latin words whatever? and that it seems but proper to seek for the etymology of words in the language of the inventors of the things. For which reason it is, that we find the two other words, tangens and secans, are Latin, as they were invented and used by authors who wrote in that language. But the sines are acknowledged to have been invented and introduced by the Arabians, and thence by analogy it would seem probable that this is a word of their language, and from them adopted, together with the use of it, by the Europeans. Lansberg, in the second page of his trigonometry above mentioned, expressly says that it is Arabic: His words are, Vox sinus Arabicu est, et proinde barbura ; sed cum longo usu approbata sit, et commodior non suppetat, nequaquam repudianda est: faciles enimin verbis nos esse oportet, cum de rebus couvenit. And Vieta says something to the same purport, in page 9 of his Universalium Inspectionum ad Canonem Mathematicum Liber: His words are, Breve sinus vocabulum, cum sit artis, Saracenis præsertim qu'àm familiare, non est ab artificibus explodendum, ad laterum semissium inscriptorum denotationem, &c.

Guarinus also is of the same opinion: in his Euclides Adauctus, &c, tract. xx. pa. 307, he says, Sinus verò est nomen Arabicum usurpatum in hanc significationem à mathematicis; though he was aware that a Latin origin was ascribed to it by Vitalis, for he immediately adds, Licèt Vitalis in suo Lexico Mathematico ex eo velit sinum appellutum, quòd

claudat curvitatem arcús.

Long before I either saw or heard of any conjecture, or observation concerning the etymology of the word sinus, I remember that I imagined it to be taken from the same Latin word, signifying breast or bosom, and that our sine was so called allegorically. I had observed, that several of the terms in trigonometry were derived from a bow to shoot with, and its appendages; as arcus, the bow, chorda, the string, and sagitta, the arrow, by which name the versed sine, which represents it, was sometimes called; also, that the tangens was so called from its office, being a line touching the circle, and secans from its cutting the same: I therefore imagined that the sinus was so called, either from its resemblance to the breast or bosom, or from its being a line drawn within the bosom (sinus) of the arc, or from its being that part of the string (chorda) of a bow (arcus) which is drawn near the breast (sinus) in the act of shooting. And perhaps Vitalis's definition, above quoted, has some allusion to the same similitude.

Also Vieta seems to allude to the same thing, in calling sinus an allegorical word, in page 417 of his works, as published by Schooten, where, with his usual judgement and precision, he treats of the propriety of the terms used in trigonometry for certain lines drawn in and about the circle; of which, as it very well deserves, I shall here extract the principal part, to show the opinion and arguments of so great a man on those names. "Arabes autem semisses inscriptas duplo, numeris præsertim æstimatas, vocaverunt allegoricè sinus, atque ideo ipsam semi-diametrum, quæ maxima est semissium inscriptarum, Sinum Totum. Et de iis sua methodo canones exiverunt qui circum-

feruntur, supputante præsertim Regiomontano benè justè et accurate, in iis etiam particulis qualium semidiameter adsumitur 10,000,000.

"Ex canonibus deinde sinuum derivaverunt recentiores canonem semissium circumscriptarum, quem dixère Fæcundum; et canonem eductarum è centro, quem dixère Fæcundissimum et Beneficum, hypotenusis addictum. Atque adeò semisses circumscriptas, numeris prættim sestimatas, vocaverunt Fæcundos, Sinus numeròsve videlicet; quanquam nihil vetat Fæcundi nomen substantivè accipi. Hypotenusas autem Beneficas, vel etiam simpliciter Hypotenusas: quoniam hypotenusa in primà serie sinus totius nomen retinet. Itaque ne novitate verborum res adumbretur, et alioqui sua artificibus, eo nomine debita, præripiatur gloria, præposita in Canone Mathematico canonicis numeris inscriptio, candidè admonet primam seriem esse Canonem Sinuum. In secundà verò, partem canonis fæcundi, partem canonis fæcundissimi, contineri. In tertià, reliquam.

"Sanè præter inscriptas et circumscriptas, circulum etiam adficiunt aliæ lineæ rectæ, velut Incidentes, Tangentes, et Secantes. Verùm illæ voces substantivæ sunt, non peripheriarum relativæ. Ac secare quidem circulum linea recta tunc intelligitur, cùm in duobus punctis secat. Itaque non loquuntur benè geometricè, qui eductas è centro ad metas circumscriptarum vocant secantes impropriè, cum secantes et tangentes ad certos angulos vel peripherias referunt. Immò verò artem confundunt, cùm his vocibus necesse habeat uti geometra abs relatione.

"Quare si quibus arrideat Arabum metaphora; quæ quidem aut omninò retinenda videtur, aut omninò explodenda; ut semisses inscriptas, Arabes vocant sinus; sic semisses circumscriptæ, vocentur Prosimus Amsinusve; et eductæ è centro Transsinuosæ. Sin allegoria displicent, geometrica sane inscriptarum et circumscriptarum nomina retineantur. Et cùm eductæ è centro ad metas circumscriptarum, non habeant hactenus nomen certum neque elegans, vocentur sanè prosemidiametri, quasi protensæ semidiametri, se habentes ad suas eircumscriptas, sicut semidiametri ad inscriptas."

Against the Arabic origin however of this word (sinus) may be urged its being varied according to the fourth declension of Latin nouns like manus; and that if it were an Arabic word latinised, it would have been ranked under either the first, second, or third declension, as is usual in such adopted words.

So that, upon the whole, it will perhaps rather seem probable, that the term simus is the Latin word answering to the name by which the Saracens called that line, and not their word itself. And this conjecture seems to be rendered still more probable by some expressions in pa. 4 and 5 of Otho's Preface to Rheticus's Canon, where it is not only said, that the Saracens called the half-chord of double the arc sinus, but also that they called the part of the radius lying between the sine and the arc sinus versus, vel sagitta, which are evidently Latin words, and seem to be intended for the Latin translations of the names by which the Arabians called these lines, or the numbers expressing the lengths of them.

And this conjecture has been confirmed and realised, by a reference to Golius's Lexicon of the Arabic and Latin languages. In consequence I find that the Arabic and Latin writers on trigonometry do both of them use those words in the same allegorical sense, the latter being

the Latin translations of the former, and not the Arabic words corrupted. Thus the true Arabic word to denote the trigonometrical sine, is , pronounced Jeil (reading the vowels in the French manner), meaning smus indusii, vestisque, the bosom part of the garment : the versed sine is , Schim, which is sagitta, the arrow; the arc is , which is arcus, the arc; and the chord is , Vitr, that is, chorda, the chord.

#### OF LOGARITHMS.

THE trigonometrical canon of natural sines, tangents and sceants, being now brought to a considerable degree of perfection, the great length and accuracy of the numbers, together with the increasing delicacy and number of astronomical problems and spherical triangles, to the solution of which the canon was applied, urged many persons, conversant in those matters, to endeavour to discover some means of diminishing the great labour and time, requisite for so many multi-plications and divisions, in such large numbers as the tables then consisted of. And their chief aim was, to reduce the multiplications and

divisions to additions and subtractions, as much as possible.

For this purpose, Nicholas Raymer Ursus Dithmarsus invented an ingenious method, which serves for one case in the sines, namely, when radius is the first term in the proportion, and the sines of two ares are the second and third terms; for he showed, that the fourth term, or sine, would be found by only taking half the sum or difference of the sines of two other arcs, which should be the sum and difference of the less of the two former given ares, and the complement of the greater. This is no more, in effect, than the following well-known theorem in trigonometry: as half radius is to the sine of one are, so is the sine of another arc, to the cosine of the difference mans the co-sine of the sum of the said arcs. The author published this ingenious device in 1588, in his Fundamentum Astronomea. And three or four years afterwards it was greatly improved by Chivius, who adapted it to all proportions in the resolution of the spherical triangles, for all sines, tangents, secants, versed sines, &c; and that whether radius be in the proportion or not. Ad which he explains very fully in lem. 53, lib. 1, of his treatise on the Astrolabe. See more on this subject in Longomont. Astron. Danica, pa. 7, et seq. This method, though ingenious, depends not on any abstract property of numbers, but only on the relations of certain lines, drawn in and about the circle; and it was therefore rather limited, and sometimes attended with trouble in the application.

After perhaps various other contrivances, incessant endeavours at leagth produced the happy invention of logarithms, which are of direct and universal application to all numbers abstractedly considered, being derived from a property inherent in numbers themselves. perty may be considered, either as the relation between a geometrical series of terms and a corresponding arithmetical one, or as the relation between ratios and the measures of ratios, which comes to much the same thing, having been conceived in one of these ways by some of the writers on this subject, and in the other by the rest of them, as well as in both ways at different times by the same writer. A succinct idea of this property, and of the probable reflections made on it by the

first writers on logarithms, may be to the following effect:

The learned calculators, about the close of the 16th, and beginzing of the 17th century, finding the operations of multiplication and division by very long numbers, of seven or eight places of figures, which they had frequently occasion to perform, in resolving problems relating to geography and astronomy, to be exceedingly troublesome, set themselves to consider whether it was not possible to find some method of lessening this labour, by substituting other easier operations in their In pursuit of this object, they reflected, that, since, in every multiplication by a whole number, the ratio, or proportion, of the product to the multiplicand, is the same as the ratio of the multiplier to unity, it will follow that the ratio of the product to unity (which, according to Euclid's definition of compound ratios, is compounded of the ratios of the said product to the multiplicand and of the multiplicand to unity), must be equal to the sum of the two ratios of the multiplier to unity and of the multiplicand to unity. Consequently, if they could find a set of artificial numbers that should be the representatives of, or should be proportional to, the ratios of all sorts of numbers to unity, the addition of the two artificial numbers that should represent the ratios of any multiplier and multiplicand to unity, would answer to the multiplication of the said multiplicand by the said multiplier, or the sum arising from the addition of the said representative numbers would be the representative number of the ratio of the product to unity; and consequently, the natural number to which it should be found, in the table of the said artificial or representative numbers, that the said sum belonged, would be the product of the said multiplicand and multiplier. Having settled this principle, as the foundation of their wished-for method of abridging the labour of calculations, they resolved to compose a table of such artificial numbers, or numbers that should be representatives of, or proportional to, the ratios of all the common or natural numbers to unity.

The first observation that naturally occurred to them in the pursuit of this scheme, was, that whatever artificial numbers should be chosen to represent the ratios of other whole numbers to unity, the ratio of equality, or of unity to unity, must be represented by 0; because that ratio has properly no magnitude, since, when it is added to, or subtracted from, any other ratio, it neither increases nor diminishes it.

The second observation that occurred to them was, that any num ber whatever might be chosen at pleasure for the representative of the ratio of any given natural number to unity; but that, when once such choice was made, all the other representative numbers would be thereby determined, because they must be greater or less than that first representative number, in the same proportions in which the ratios represented by them, or the ratios of the corresponding natural numbers to unity, were greater or less than the ratio of the said given natural number to unity. Thus, either 1, or 2, or 3, &c, might be chosen for the representative of the ratio of 10 to 1. But, if 1 be chosen for it,

the representative of the ratio of 100 to 1 and 1000 to 1, which are double and triple of the ratio of 10 to 1, must be 2 and 3, and cannot be any other numbers: and if 2 be chosen for it, then the representatives of the ratios of 100 to 1 and 1000 to 1, will be 4 and 6, and cannot be any other numbers; and if 3 be chosen for it, then the representatives of the ratios of 100 to 1 and 1000 to 1, will be 6 and 9, and cannot be any other numbers; and so on.

The third observation that occurred to them was, that, as these artificial numbers were representatives of, or proportional to, ratios of the natural numbers to unity, they must be expressions of the numbers of some smaller equal ratios that are contained in the said ratios. Thus, if 1 be taken for the representative of the ratio of 10 to 1, then 3, which is the representative of the ratio of 1000 to 1, will express the number of ratios of 10 to 1 that are contained in the ratio of 1000 to 1. And if, instead of 1, we make 10,000,000, or ten millions, the representative of the ratio of 10 to 1 (in which case 1 will be the representative of a very small ratio, or ratiuncula, which is only the ten-millionth part of the ratio of 10 to 1, or will be the representative of the 10,000,000th root of 10, or of the first or smallest of 9,999,999 mean proportionals interposed between 1 and 10), the representative of the ratio of 1000 to 1, which will in this case be 30,000,000, will express the number of those rationculæ, or small ratios of the 10,000,000th root of 10 to 1, which are contained in the said ratio of 1000 to 1. And the like may be shown of the representative of the ratio of any other number to And therefore they thought these artificial numbers, which thus represent, or are proportional to, the magnitudes of the ratios of the natural numbers to unity, might not improperly be called the LOGARITHMS of those ratios, since they express the numbers of smaller ratios of which they are composed. And then, for the sake of brevity, they called them the Logarithms of the said natural numbers themselves, which are the antecedents of the said ratios to unity, of which they are in truth the representatives.

The foregoing method of considering this property leads to much the same conclusions as the other way, in which the relations between a geometrical series of terms, and their exponents, or the terms of an arithmetical series, are contemplated. In this latter way, it readily occurred that the addition of the terms of the arithmetical series corresponded to the multiplication of the terms of the geometrical series; and that the arithmeticals would therefore form a set of artificial numbers, which, when arranged in tables, with their geometricals, would answer the purposes desired, as has been explained above.

From this property, by assuming four quantities, two of them as two terms in a geometrical series, and the others as the two corresponding terms of the arithmeticals, or artificials, or logarithms, it is evident that all the other terms of both the two series may thence be generated. And therefore there may be as many sets or scales of logarithms as we please, since they depend entirely on the arbitrary assumption of the first two arithmeticals. And all possible natural numbers may be supposed to coincide with some of the terms of any geometrical progression whatever, the logarithms or arithmeticals determining which of the terms in that progression they are.

It was proper however that the arithmetical series should be so as-

sumed, as that the term 0 in it might answer to the term 1 in the geometricals; otherwise the sum of the logarithms of any two numbers would be always to be diminished by the logarithm of 1, to give the logarithm of the product of those numbers: for which reason, making 0 the logarithm of 1, and assuming any quantity whatever for the value of the logarithm of any one number, the logarithms of all other numbes were thence to be derived. And hence, like as the multiplication of two numbers is effected by barely adding their logarithms, so divison is performed by subtracting the logarithm of the one from that of the other, raising of powers by multiplying the logarithm of the given number by the index of the power, and extraction of roots by dividing the logarithm by the index of the root. It is also evident, that in all scales or systems of logarithms, the logarithm of 0 will be infinite; namely, infinitely negative if the logarithms increase with the natural numbers, but infinitely positive if the contrary; because that while the geometrical series must decrease through infinite divisions by the ratio of the progression, before the quotient come to 0 or nothing; the logarithms, or arithmeticals, will in like manner undergo the corresponding infinite subtractions or additions of the common equal difference; which equal increase or decrease, thus indefinitely continued, must needs tend to an infinite result.

This however was no newly-discovered property of numbers, but what was always well known to all mathematicians, being treated of in the writings of Euclid, as also by Archimedes, who made great use of it in his Arenarius, or treatise on the number of the sands, namely, in assigning the rank or place of those terms, of a geometrical series produced from the multiplication together of any of the foregoing terms, by the addition of the corresponding terms of the arithmetical series, which served as the indices or exponents of the former. Stifelius also treats very fully of this property at folio 35 et seq. and there explains all its principal uses, as relating to the logarithms of numbers, only without the name; such as, that addition answers to multiplication, subtraction to division, multiplication of exponents to involution, and dividing of exponents to evolution; all which he exemplifies in the rule-of-three, and in finding several mean proportionals, &c, exactly as is done in logarithms. So that he seems to have been in the full possession of the idea of logarithms, but without the necessity of making a table of such numbers. For, the reason why tables of these numbers were not sooner composed, was, that the accuracy and trouble of trigonometrical computations had not sooner rendered them necessary. It is therefore not to be doubted, that about the close of the sixteenth and beginning of the seventeenth century, many persons had thoughts of such a table of numbers, besides the few who are said to have attempted it.

It has been said by some, that Longomontanus invented logarithms: but this cannot well be supposed to have been any more than in idea, since he never published any thing of the kind, nor ever laid claim to the invention, though he lived thirty-three years after they were first

published by baron Napier, as he died only in 1647, when they had been long known and received all over Europe. Nay more, Longomontanus himself ascribes the invention to Napier: vid. Astron. Daniea, p. 7, &c. Some circumstances of this matter are indeed related by Wood in his Athenæ Oromenses, under the article Briggs, on the authority of Oughtred and Wingate, viz. "That one Dr. Craig, a Scotchman, coming out of Denmark into his own country, called upon Joh. Neper baron of Matcheston near Edenburg, and told him, among other discourses, of a new invention in Denmark (by Longomontanus as 'tis said) to save the tedious multiplication and division in astronomical calculations. Neper being solicitous to know farther of him concerning this matter, he could give no other account of it, than that it was by proportional numbers. Which hint Neper taking, he desired him at his return to call upon him again. Craig, after some weeks had passed, did so, and Neper then showed him a rude draught of that he called Canon marabilis Logarithmorum. Which draught, with some alterations, he printing in 1614, it came forthwith into the hands of our author Briggs, and into those of Will. Oughtred, from whom the relation of this matter came."

Kepler also says, that one Juste Byrge, assistant astronomer to the landgrave of Hesse, invented or projected logarithms long before Neper did; but that they had never come abroad, on account of the great reservedness of their author with regard to his own compositions. It is also said that Byrge computed a table of natural sines for every two

seconds of the quadrant.

But whatever may have been said, or conjectured, concerning any thing that may have been done by others, it is certain that the world is indebted, for the first publication of logarithms, to John Napier, or Nepair\*, or in Latin, Neper, baron of Merchiston, or Markinston,

The origin of which name, Crawford informs on, was from a (less) pectiest action of one of his amentors, viz. Donald, second and of the sax, of Lenox, in the time of David the Second. "Some English writers, instaking the naport of the term furon, have called this celebrated person cel Naport, a Scotch n-heman. He was not indeed a peer of Scotland but the pectage of Scotland of rous us, that he was of a very ancient, homosomes, and distance in land, the sax extors, for many generations, had been possessed of sensity but onces, and, incomest others, of the barony of Merchistoun, which descended to him by the do oth of his tatter in 100s. Mr Benga, therefore, very propely syles has Baro Merchedoni. Now, according to Skene, do not become uganteratione, "In this realist (of Scotland) has a called a Barronne, gods haldes he has done unmediately in closely of the king, and heap power of Pit and God, in the Form on the harmone to have any Pit, quite rin women condemned for their sold be decound, and any Calleway, whereupon men there and trespandences such be hanged, or offered to the done good in the Barron Court thereasen.' So that a Scotch baron, though no peer, was covered cless a very considerable personage, both in dignity and power." Rour i Evary on Legarithms. The mans of the data cour investor of logarithms, and his family, has been variously we tree at different times, and outferent occasions. In his own Latin marks, and in personal will other books in Latin, it is Neper, or Neperia Baro Merchaton; By Blaggs, in a letter to Archinals p Uniter, be a called Apper lord of Markinston. In Veright's translation of the Logar his, which was revised by the author humbell, and published to 1616, he is talled Arpara, beron of Marchinan; and the himself, and published to 1666, he is a led of the second colors write it Napore, below of Merchinton; which being also the orthography now used by the family, I shall adopt in this work. I observe also, that the Scotch Compendana of Honour says he was only

in Scotland, who died the 3d of April 1618, at 67 years of age. Baron Napier added considerable improvements to trigonometry, and the frequent numeral computations he performed in this branch gave occasion to his invention of logarithms, in order to save part of the trouble attending those calculations: and for this reason he adapted his

tables peculiarly to trigonometrical uses.

This discovery he published in 1614, in his book intitled Mirifici Logarithmorum Canonis Descriptio, reserving the construction of the numbers till the sense of the learned concerning his invention should be known. And, excepting the construction, this is a perfect work on this kind of logarithms, containing in effect the logarithms of all numbers, and the logarithmic sines, tangents, and secants, for every minute of the quadrant, together with the description and uses of the

tables, as also his definition and idea of logarithms.

Napier explains his notion of logarithms by lines described or generated by the motion of points, in this manner: He first conceives a line to be generated by the equable motion of a point, which passes over equal portions of it in equal small moments or portions of time: he then considers another line as generated by the unequal motion of a point, in such manner that, in the aforesaid equal moments or portions of time, there may be described or cut off, from a given line, parts which shall be continually in the same proportion with the respective remainders, of that line, which had before been left: then are the several lengths of the first line, the logarithms of the corresponding parts of the latter. Which description of them is similar to this, that the logarithms are a series of quantities or numbers in arithmetical progression, adapted to another series in geometrical progression. first or whole length of the line, which is diminished in geometrical progression, he makes the radius of a circle, and its logarithm 0 or nothing, representing the beginning of the first or arithmetical line; and the several proportional remainders of the geometrical line, are the natural sines of all the other parts of the quadrant, decreasing down to nothing, while the successive increasing values of the arithmetical line, are the corresponding logarithms of those decreasing sines: so that, while the natural lines decrease from radius to nothing, their loganithms increase from nothing to infinite. Napier made the logarithm of radius to be 0, that he might save the trouble of adding and subtracting it, in trigonometrical proportions, in which it so frequently occurred; and he made the logarithms of the sines, from the entire quadrant down to 0, to increase, that they might be positive, and so in his opinion the easier to manage, the sines being of more frequent use than the tangents and secants, of which the whole of the latter and half the former would, in his way, be of a different affection from the sines; for it is evident that the logarithms of all the secants in the quadrant, and of all the tangents above 45°, or the half quadrant, would be negative, being the logarithms of numbers greater than the radius, whose logarithm is made equal to 0 or nothing.

Sir John Napier, and that his son and heir Archibald, was the first lord, being raised to that dignity in 1626. Be this however as it may, I shall conform to the common modes of expression, and call him indifferently, Baron Napier, or Lord Napier.

E

As to the contents of Napier's table; it consists of the natural sines and their logarithms, for every minute of the quadrant. Like most other tables, the arcs are continued to 45 degrees from top to bottom on the left-hand side of the pages, and then returned backwards from bottom to top on the right-hand side of the pages: so that the arcs and their complements, with the sines, natural and logarithmic, stand on the same line of the page, in six columns; and in another column, in the middle of the page, are placed the differences between the logarithmic sines and cosines on the same lines, and in the adjacent columns on the right and left; thus making in all seven columns in each page. Of these columns, the first and seventh contain the arc and its complement, in degrees and minutes; the second and sixth, the natural sine and cosine of each arc; the third and fifth, the logarithmic sine and cosine; and the fourth, or middle column, the difference between the logarithmic sine and cosine which are in the third and fifth columns. To elucidate the description, the first page of the table is here inserted, as follows:

0 1 2 3 4	Sinus.  2909 5818  8727 11636 14544	Logarithmi. Infinitum. 81425681 74494213 70439564 67562746	Differentiæ. Infinitum. 81425690 74494211 70439560	Logarithmi.  O 1 2	Sinus. 10000000 10000000	60 59
1 2 3 4	2909 5818 8727 11636	81425681 74494213 .70439564	81425690 74494211	1		
2 3 4	5818 8727 11636	74494213	74494211	1 9	10000000	50
3 4	8727 11636	70439564		9		1 73
4	11636	•	70480560	~	9999998	58
		RYEROYAR	10203300	4	9999996	57
5	14544	0/00%/40	67562739	7	999993	<b>56</b>
		65331315	65331304	11	9999989	55
6	17453	63506099	63508083	16	9999984	54
7 9	20362	619665 <b>9</b> 8	61966573	22	9999980	53
8 9	23271	60631284	60631256	<b>2</b> 8	9999974	52
9 9	26180	59453453	59453418	35	9999967	51
10   9	29088	583998 <b>57</b>	58399814	43	9999959	50
11 3	31997	57446759	57446707	52	9999950	49
12 3	34906	56576646	56576584	62	9999940	48
13   3	37815	55776222	55776149	73	9999928	47
14 4	40724	55035148	55035064	84	9999917	46
15	43632	54345925	54345129	96	9999905	45
16	46541	53699843	53699734	109	9999892	44
17	19450	53093600	53093577	123	9999878	43
18	52359	52522019	52521881	138	9999863	42
19   8	55268	51981356	51981202	154	9999847	41
20	58177	51469431	51468361	170	9999831	40
21 6	61086	50980537	50980450	187	9999813	39
22 6	63995	50515342	50515137	205	9999795	38
23 (	66904	50070627	50070603	224	9999776	37
24 (	69813	49645239	49644995	244	9999756	36
25 7	72721	49237030	49236765	265	9999736	35
26 7	75630	48844826	48844539	287	9999714	34
27 7	78539	48467431	48467122	309	9999692	33
£ .	31448	48103763	48103431	<b>3</b> 32	9999668	32
29 8	34357	47752859	47752503	336	9999644	3 <b>Y</b>
30 8	37265	47413859	47113471	381	9999619	30

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Besides the columns which are actually contained in this table, as above exhibited and described, namely, the natural and logarithmic sines and their differences, the same table is made to serve also for the logarithmic tangents and secants of the whole quadrant, and for the logarithms of common numbers. For, the fourth or middle column contains the logarithmic tangents, being equal to the differences betwen the logarithmic sines and cosines, when the logarithm of radius is 0, because cosine: sine: radius: tangent, that is, in logarithms. tangent = sine — cosine. Also the logarithmic sines, made negative, become the logarithmic cosecants, and the logarithmic cosines made negative, are the logarithmic secants; because sine : radius : : radius : cosecant, and cosine: radius: radius: secant; that is, in logarithms, cosecant = 0 — sine = — sine, and secant = 0 — cosine = — cosine. And to make it answer the purpose of a table of logarithms of common numbers, the author directs to proceed thus: A number being given, find that number in any table of natural sines, or tangents, or secants, and note the degrees and minutes in its arc: then in his table find the corresponding logarithmic sine, or tangent, or secant, to the same number of degrees and minutes; and it will be the required logarithm of the given number.

After his definitions and descriptions of logarithms, Napier explains his table, and illustrates the precepts with examples, showing how to take out the logarithms of sines, tangents, secants, and of common numbers; as also how to add and subtract logarithms. He then proceeds to teach the uses of those numbers; and first, in finding any of the terms of three or four proportionals, showing how to multiply and divide, and to find powers and roots, by logarithms: 2dly, in trigonometry, both plane and spherical, but especially the latter, in which he is very explicit, turning all the theorems for every case into loganithms, computing examples to each in numbers, and then enumerating a set of astronomical problems of the sphere which properly belong Napier here teaches also some new theorems in spherical trigonometry, particularly, that the tangent of half the base: tang. 4 sum legs:: tang. 1 dif. legs: tang. 1 the alternate base; and the geperal theorem for what are called his five circular parts, by which he condenses into one rule, in two parts, the theorems for all the cases of right-angled spherical triangles, which had been separately demonstrated by Pitiscus, Lansbergius, Copernicus, Regiomontanus, and others.

The description and use of Napier's canon being in the Latin language, they were translated into English by Mr. Edward Wright, an ingenious mathematician, and inventor of the principles of what has commonly, though erroneously, been called Mercator's Sailing. He sent the translation to the author, at Edinburgh, to be revised by him before publication; who having carefully perused it, returned it with his approbation, and a few lines introduced besides into the translation. But, Mr. Wright dying soon after he received it back, it was after his death published, together with the tables, but each

**E** 2

number to one figure less, in the year 1616, by his son, Samuel Wright, accompanied with a dedication to the East India Company, as also a preface by Henry Briggs, of whom we shall presently have occasion to speak more at large, on account of the great share he bore in perfecting the logarithms. In this translation, Mr. Briggs gave also the description and draught of a scale that had been invented by Mr. Wright, and several other methods of his own, for finding the proportional parts to intermediate numbers, the logarithms having been only printed for such numbers as were the natural sines of each minute. And the note which Baron Napier inserted in this English edition, and which was not in the original, was as follows: "But besenue the addition and subtraction of these former numbers may seem somewhat painfull, I intend (if it shall please God) in a second edition, to set out such logarithms as shall make those numbers above written to fall upon decimal numbers, such as 100,000,000, 200,000,000 300,000,000 &c, which are easie to be added or abated to or from any other number." This note had reference to the alteration of the scale of logarithms, in such manner, that I should become the logarithm of the ratio of 10 to 1, instead of the number 2:3025851, which Napier had made that logarithm in his table, and which alteration had before been recommended to him by Briggs, as we shall see presently. Napier also inserted a similar remark in his Rabdologia, which he printed at Edinburgh in 1617.

The following is the preface to Wright's \* book, which, as far as

<sup>\*\*</sup>Of this ingenious man I shall here insert in a note the following memors, as they have been translated from a Latin p ere taken out of the annals of Gonvile and Can's Cobege at Canstender, are "This year 1615 deed at London, Edward Wright of Carresson in Norfolk, formerly a telic w of this codege, a man respected by all for the integrity and an place of his assingers, and also famous for his skile in the mathematical secrets a wormals that he was deservedly styled a most excellent mathematican by Richard Plackbart, the author of an original treatine of our keighth navigations. What knowledge he had acquires in the service of mechanics, and how usefully be employed that knowledge he had acquires in the service of mechanics, and how usefully he employed that knowledge to the public as well as private advantage, abundantly appear bod. I may be writing the positioned, and from the many mechan or all extents, which are standing moments of his print advantage and agreements, to expert the extension of the first undertaker of that difficult but useful with, by which a little river who gld from the time, of Warr in a new canal, to supply the city of London with water; but by the trick to others he was be identified from one pleting, the city of London with water; but by the trick to others he was be identified from one pleting, the city of London with water; but by the trick to others he was been extended in owing whatever advantage. However, and excellent pudgments have above others, for it was our Wright that taught of shown Hundon controlled the name of the tric nation, which was tell then unknown but the acquired he made a concealed the name of the tric nation, which was tell then unknown but the acquired in the action of the trickers in the bears of the population, which he composed with excellent judgment, and after his general mathematical levels of the formation of this bor had a visit such a visit such a visit such as the control of this bor had a visit such as a visit such as the formation of his bories as

where it mentions the change from the Latin into English, is a literal translation of the preface to Napier's original; but what follows that, is added by Napier himself. And I willingly insert it here, as it contains a declaration of the motives which led to this discovery, and as the book itself is very scarce. "Seeing there is nothing (right well beloved students in the mathematics) that is so troublesome to Mathemuicall practise, nor that doth more molest and hinder Calculators, the Multiplications, Divisions, square and cubical Extractions of great numbers, which, besides the tedious expence of time, are for the most part subject to many slippery errors: I began therefore to consider in my minde, by what certaine and ready Art I might remove those hindrances. And having thought upon many things to this purpose, I found at length some excellent briefe rules to be treated of (perhaps) hereafter. But amongst all, none more profitable than this, which together with the hard and tedious Multiplications, Divisions, and Extractions of rootes, doth also cast away from the worke it selfe. even the very numbers themselves that are to be multiplied, divided, and resolved into rootes, and putteth other numbers in their place, which performe as much as they can do, onely by Addition and Subtraction, Division by two, or Division by three; which secret invention, being (as all other good things are) so much the better as it shall be the more common; I thought good heretofore to set forth in Latine for the publique use of Mathematicians. But now some of our Countrymen in this Island well affected to these studies, and the more publique good, procured a most learned Mathematician to translate the same into our vulgar English tongue, who after he had finished it sent the Coppy of it to me, to be seene and considered on by myself. baving most willingly and gladly done the same, finde it to be most exact and precisely conformable to my minde and the originall. Therefore it may please you who are inclined to these studies, to receive it from me and the Translator, with as much good will as we recommend it unto you. Fare yee well."

There are also extant copies of Wright's translation with the date 1618 in the title: but this is not properly a new edition, being only the old work with a new title-page adapted to it (the old one being cancelled), together with the addition of sixteen pages of new matter, called

the queen's majesty, about the year 1593. He was ordered to attend the earl of Cumberland in some maritime expeditions. One of these he has given a faithful account of, in the way of a journal or ephemeris, to which he has prefixed an elegant hydrographical chart of his own contrivance. A little before his death, he employed himself about an English translation of the book of logarithms then lately found out by the honourable Baron Napier, a Scotchman, who had a great affection for him. This posthumous work of his was published soon after, by his only son Samuel Wright, who was also a scholar of this college. He had formed many other meful designs, but was hindered by death from bringing them to perfection. Of him it may be truly said, that he studied more to serve the public than himself; and though he was rich in fame, and in the promises of the great, yet he died poor, to the scandal of an ungrateful age."

Other anecdotes of him, as well as many other mathematical authors, may be found in the eurious history of navigation by Dr. James Wilson, prefixed to Mr. Robertson's excellent treatise on that subject.

"An Appendix to the Logarithms, showing the practice of the calculation of triangles, and also a new and ready way for the exact finding out of such lines and logarithms as are not precisely to be found in the canons." But we are not told by what author: probably it was by

Briggs.

Besides the trouble attending Napier's canon, in finding the proportional parts, when used as a table of the logarithms of common numbers, and which was in part remedied by the fore-mentioned contrivances of Wright and Briggs, it was also accompanied with another inconvenience, which arose from the logarithms being sometimes + or additive, and sometimes — or negative, and which required therefore the knowledge of algebraical addition and subtraction. And this inconvenience was occasioned, partly by making the logarithm of radius to be 0, and the sines to decrease, and partly by the compendious manner in which the author had formed the table; making the three columns of sines, cosines, and tangents, to serve also for the other three

of cosecants, secants, and cotangents.

But this latter inconvenience was well remedied by John Speidell, in his New Logarithms, first published in 1619, which contained all the six columns, and in this order; sines, cosines, tangents, cotangents, secants, cosecants: and they were besides made all positive, by being taken the arithmetical complements of Napier's, that is, they were the remainders left by subtracting each of these latter from 10000000. And the former inconvenience was more effectually removed by the said Speidell, in an additional table, given in the sixth impression of the former work, in the year 1624. This was a table of Napier's logarithms for the round or integer numbers 1, 2, 3, 4, 5, &c, to 1000, together with the differences and arithmetical complements; as also the halves of the said logarithms, with their differences and arithmetical complements; which halves consequently were the logarithms of the square roots of the said numbers. These logarithms are however a little varied in their form from Napier's, namely, so as to increase from 1, whose logarithm is 0, instead of decreasing to 1, or radius, whose logarithm Napier made 0 likewise; that is, Speidell's logarithm of any number n, is equal to Napier's logarithm of its reciprocal h: so that in this last table of Speidell's, the logarithm of 1 being 0, the logarithm of 10 is 2302584, the logarithm of 100 is twice as much, or 4605168, and that of 1000 thrice as much, or 6907753.

This table is now commonly called hyperbolic logarithms, because the numbers express the areas between the asymptote and curve of the hyperbola, those areas being limited by ordinates parallel to the other asymptote, and the ordinates decreasing in geometrical progression. But this is not a very proper method of denominating them, as such areas may be made to denote any system of logarithms whatever, as we

shall show more at large in the proper place.

In the year 1619, Robert Napier, son of the inventor of logarithms, published a new edition of his late father's Logarithmorum Canonis Descriptio, together with the promised Logarithmorum Canonis Con-

tructio, and other miscellaneous pieces, written by his father and by Mr. Briggs.—Also one Bartholomew Vincent, a bookseller at Lagdunum, or Lyons, in France, printed there an exact copy of the same two works in one volume, in the year 1620; which was four years before the logarithms were carried to France by Wingate, who was therefore erroneously said to have first introduced them into that country. But I shall treat more particularly of the contents of this work, after having enumerated the other writers on this kind of logarithms.

In 1618 or 1619, Benjamin Ursinus, mathematician to the Elector of Brandenburgh, published, at Cologn, his Cursus Mathematicus, in which is contained a copy of Napier's logarithms, with the addition of some tables of proportional parts. And in 1624, he printed at the same place, his Trigonometria, with a table of natural sines and their logarithms, of the Napierian kind and form, to every ten seconds in the

quadrant; which he had been at much pains in computing.

In the same year 1624, logarithms, of nearly the same kind, were also published, at Marpurg, by the celebrated John Kepler, mathematician to the Emperor Ferdinand the Second, under the title of Chilias. Logarithmorum ad Totidem Numeros Rotundos, præmissa Demonstratione legitima Ortus Logarithmorum eorumque Usus, &c; and the year following, a supplement to the same; being applied to round or integer numbers, and to such natural sines as nearly coincide with These are exactly the same kind of logarithms as Napier's, being the same logarithms of the natural sines of arcs, beginning from the quadrant, whose sine or radius is 10,000,000, the logarithm of which is made 0, and from thence the sines decreasing by equal differences, down to 0, or the beginning of the quadrant, while their logarithms increase to infinity. So that the difference between this table and Napier's, consists only in this, namely, that in Napier's table the arc of the quadrant is divided into equal parts, differing by one minute each, and consequently their sines, to which the logarithms are adapted, are irrational or interminate numbers, and only expressed by approximate decimals; whereas in Kepler's table, the radius is divided into equal parts, which are considered as perfect and terminate sines, having equal differences, and to which terminate sines the logarithms are here adapted. By this means indeed the proportions for intermediate numbers and logarithms are easier made, but then the corresponding arcs are not terminate, but irrational, and only set down to an approximate degree. So that Kepler's table is more convenient as a table of the logarithms of common numbers, and Napier's as the logarithmic sines of the arcs of the quadrant. In both tables, the logarithm of the ratio of 10 to 1, is the same quantity, namely 23025852; and as the radius, or greatest sine, is 10,000,000, whose logarithm is made O, the logarithms of the decuple parts of it will be found by adding 23025852 continually, or multiplying this logarithm by 2, 3, 4, &c; and hence the logarithm of 1, the first number, or smallest sine, in the table, is 161180959, or 7 times 2302 &c.

Besides the two columns, of the natural sines and their logarithms,

with the differences of the logarithms, this table of Kepler's consists also of three other columns; the first of which contains the nearest arcs, belonging to those sines, expressed in degrees, minutes and seconds; and the other two express what parts of the radius each sine is equal to, namely, the one of them in 24th parts of the radius, and minutes and seconds of them; and the other in 60th parts of the radius, and minutes of them. As a specimen I have here extracted the last page of the table printed exactly as in the work:

Arcus Circuli cum differentiis.	Sinus seu numeri absoluti.	Par simæ	tes vie quai		LOGARITHMI cum differentiis. 101.58	Par sexage	_
80. 3. 46	98500.00	23.	38.	24	1511.36+	<b>59.</b>	6
20. 12 80. 23. 58	98600.00	23.	39.	50	, -	59.	10
90. 44. 51	98700.00	23.	41.	17	•	59.	13
21. 42 81. 6. 33	98800.00	23.	42.	43	1	59.	17
81. 29. 26	98900.00	23.	44.	10		59.	20
24. 6 81. 53. 32	99000.00	23.	45.	36	•	59.	24
95. 6 82, 18. 38	99100.00	23.	47.	2		59.	28
26. 28 82. 45. 6	99200.00	23.	48.	29	1 0 0.8 5 803.22 <del> </del> - 1 0 0.7 6	59.	31
83. 13. 0	99300.00	23.	49.	55		59.	35
83. 43. 90	99400.00	23.	51.	22		59.	38
84. 16. 0	99500.00	23.	52.	48	_	59.	42
36. 30 84. 52. 30	_	23.	54.	14		5 <b>9</b> .	46
85. 33. 39	_	23.	55.	41		59.	49
86. 22. 33	99800.00	23.	57.	7		59.	53
- 1. 3. 49 87. 26. 15	i	23.	58.	84		59.	56
90. 0. 0.	100000.00	24.	0	0		60.	0

To the table, Kepler prefixes a pretty considerable tract, containing the construction of the logarithms, and a demonstration of their properties and structure, in which he considers logarithms, in the true and legitimate way, as the measures of ratios, as shall be shown more particularly hereafter in the next part, where we shall treat of

the construction of logarithms.

Kepler also introduced the logarithmic calculus into his Rudolphine tables, published in 1627; and inserted in that work several logarithmic tables; as, first, a table similar to that above described, except that the second, or column of sines, or of absolute numbers, is omitted, and, instead of it, another column is added, showing what part of the quadrant each arc is equal to, namely the quotient, expressed in integers and sexagesimal parts, arising from the dividing the whole quadrant by each given arc; 2dly, Napier's table of logarithmic sines to every minute of the quadrant; also two other smaller tables, adapted for the purposes of eclipses and the latitudes of the planets. In this work also Kepler gives a succinct account of logarithms, with the description and use of those that are contained in these tables. And here it is that he mentions Justus Byrgius, as having had logarithms before Napier published them.

Besides the above, some few others published logarithms of the same kind about this time. But let us now return to treat of the history of the common or Briggs's logarithms, so called because he first computed them, and first mentioned them, and recommended them to Napier,

instead of the first kind by him invented.

Mr. Henry Briggs, not less esteemed for his great probity, and other eminent virtues, than for his excellent skill in mathematics, was at the time of the publication of Napier's logarithms, in 1614, professor of geometry in Gresham college in London, having been appointed the first professor after its institution: which appointment he held till January 1620, when he was chosen, also the first, Savilian professor of Geometry at Oxford, where he died January the 26th,

168°, aged about 74 years.

On the publication of Napier's logarithms, Briggs immediately applied himself to the study and improvement of them. In a letter to Mr. (afterwards Archbishop) Usher, dated the 10th of March 1615, he writes, "that he was wholly taken up and employed about the noble invention of logarithms, lately discovered." And again, "Napier lord of Markinston hath set my head and hands at work with his new and admirable logarithms: I hope to see him this summer, if it please God; for I never saw a book which pleased me better, and made me more wonder." Thus we find that Briggs began very early to compute logarithms: but these were not of the same kind with Napier's, in which the logarithm of the ratio of 10 to 1 was 2.3025851 &c.; for, in Briggs's first attempt he made I the logarithm of that ratio; and, from the evidence we have, it appears that he was the first person who formed the idea of this change in the scale, which he presently and liberally communicated, both to the public in his lectures, and to lord Napier himself, who afterwards said that he also had thought of the same thing; as appears by the following extract, translated from

the preface to Briggs's Arithmetica Logarithmica: " Wonder not (says he) that these logarithms are different from those which the excellent baron of Marchiston published in his Admirable Canon. For when I explained the doctrine of them to my auditors at Gresham college in London, I remarked that it would be much more convenient, the logarithm of the sine total or radius being 0 (as in the Canon Murificus), if the logarithm of the 10th part of the said radius, namely, of 5° 44' 21", were 100000 &c; and concerning this I presently wrote to the author; also, as soon as the season of the year and my public teaching would permit, I went to Edinburgh, where being kindly received by him, I staid a whole month. But when we began to converse about the alteration of them, he said that he had formerly thought of it, and wished it; but that he chose to publish those that were already done, till such time as his leisure and health would permit him to make others more convenient. And as to the nature of the change, he thought it more expedient that 0 should be made the logarithm of 1: and 100000 &c. the logarithm of radius; which I could not but acknowledge was much better. Therefore, rejecting those which I had before prepared, I proceeded, at his exhortation, to calculate these; and the next summer I went again to Edinburgh, to show him the principle of them; and should have been glad to do the same the third summer, if it had pleased God to spare him so long."

So that it is plain that Briggs was the inventor of the present scale of logarithms, in which 1 is the logarithm of the ratio of 10 to 1, and 2 that of 100 to 1, &c; and that the share which Napier had in them, was only advising Briggs to begin at the lowest number 1, and make the logarithms, or artificial numbers, as Napier had also called them, to increase with the natural numbers, instead of decreasing; which made no alteration in the figures that expressed Briggs's logarithms, but only in their affection or signs, changing them from negative to positive;

so that Briggs's first logarithms to the numbers in the second column of the annexed tablet, would have been as in the first column; but after they were changed, as they are here in the third column; which is a change of no essential difference, as the logarithm of the ratio of 10 to 1, the radia of the natural system of numbers, continues the same, a change in the logarithm of that ratio being the only circumstance that can essentially after the system of logarithms, the logarithm of 1 being 0. And the reason why Briggs, after that interview, rejected what he had before done, and began anew, was probably because he had adapted his new

В	Num.	N
п	10°	- 11
- 3	1001	-3
9	*01	-2
1	- 1	-1
0	1	0
31	10	1
S	100	2
3	1000	3
<b>-</b> −-n	104	R

logarithms to the approximate sines of ares instead of the round or integer numbers, and not from their being logarithms of another system, as were those of Napier.

On Briggs's return from Edinburgh to London the second time, namely, in 1617, he printed the first thousand logarithms, to eight places of figures, besides the index, under the title of Logarithmorum Chihas Prima. But these seem not to have been published till after

the death of Napier, which happened on the 3d of April 1618, as before said; for, in the preface to them, Briggs says, "Why these logarithms differ from those set forth by their most illustrious inventor, of ever respectful memory, in his Canon Mirificus, IT IS TO BE HOPED his posthumous work will shortly make appear." And as Napier, after communication had with Briggs, on the subject of altering the sale of logarithms, had given notice, both in Wright's translation, and in his own Rahdologia, printed in 1617, of his intention to alter the scale (though it appears very plainly that he never intended to compute any more), without making any mention of the share which Briggs had in the alteration, this gentleman modestly gave the above hint. But not finding any regard paid to it in the said posthumous work, published by lord Napier's son in 1619, where the alteration is again adverted to, but still without any mention of Briggs; this gentleman thought he could not do less than state the grounds of that alteration himself, as they are above extracted from his work published in 1624.

Thus, upon the whole matter, it seems evident that Briggs, whether he had thought of this improvement in the construction of logarithms, of making 1 the logarithm of the ratio of 10 to 1, before lord Napier, or not (which is a secret that could be known only to Napier himself), was the first person who communicated the idea of such an improvement to the world; and that he did this in his lectures to his auditors at Gresham college in the year 1615, very soon after his perusal of Napier's Canon Mirificus Logarithmorum in the year 1614. He also mentioned it to Napier, both by letter in the same year, and on his first visit to him in Scotland in the summer of the year 1616, when Napier approved the idea, and said it had already occurred to himself, and that he had determined to adopt it. It would therefore have been more candid in lord Napier to have told the world, in the second edition of this book, that Mr. Briggs had mentioned this improvement to him, and that he had thereby been confirmed in the resolution he had already taken, before Mr. Briggs's communication with him (if indeed that was the fact), to adopt it in that his second edition, as being better fifted to the decimal notation of arithmetic which was in general use. Such a declaration would have been but an act of justice to Mr. Briggs; and the not having made it, cannot but incline us to suspect that lord Napier was desirous that the world should ascribe to him alone the merit of this very useful improvement of the logarithms, as well as that of having originally invented them; though, if the having first communicated an invention to the world be sufficient to entitle a man to the honour of having first invented it, Mr. Briggs had the better title to be called the first inventor of this happy improvement of logarithms.

In 1620, two years after the Chilias Prima of Briggs came out, Mr. Edmund Gunter published his Canon of Triangles, which contains the artificial or logarithmic sines and tangents, for every minute, to seven places of figures, besides the index, the logarithm of radius being 1000 &c. These logarithms are of the kind last agreed upon by Napier and Briggs, and they were the first tables of logarithmic sines and tangents that were published of this sort. Gunter also, in 1623,

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reprinted the same in his book De Sectore et Radio, together with the Chilias Prima of his old colleague Mr. Briggs, he being professor of astronomy at Gresham college when Briggs was professor of geometry there, Gunter having been elected to that office the 6th of March 1619, and enjoyed it till his death, which happened on the 10th of December, 1626, about the forty-fifth year of his age. In 1623 also, Gunter applied these logarithms of numbers, sines, and tangents, to straight lines drawn on a ruler; with which, proportions in common numbers and trigonometry were resolved by the mere application of a pair of compasses; a method founded on this property, that the logarithms of the terms of equal ratios are equidifferent. This instrument, in the form of a two-foot scale, is now in common use for navigation, and other purposes, and is commonly called the Gunter. He also greatly improved the sector for the same uses. Gunter was the first who used the word co-sine for the sine of the complement of an arc. He also introduced the use of arithmetical complements into the logarithmical arithmetic, as is witnessed by Briggs, chap. XV. Arith. Log. And it has been said, that he started the idea of the logarithmic curve, which was so called because the segments of its axis are the logarithms of the corresponding ordinates,

The logarithmic lines were afterwards drawn in various other ways. In 1627, they were drawn by Wingate on two separate rulers sliding against each other, to save the use of compasses in resolving proportions. They were also, in 1627, applied to concentric circles, by Oughtred. Then in a spiral form by a Mr. Milburne of Yorkshire about the year 1650. And, lastly, in 1657, on the present sliding rule,

by Seth Partridge.

The discoveries relating to logarithms were carried to France by Mr. Edmund Wingate, but not first of all, as he erroneously says in the preface to his book. He published at Paris, in 1624, two small tracts in the French language: and afterwards at London, in 1626, an English edition of the same, with improvements. In the first of these, he teaches the use of Gunter's ruler; and in the other, that of Briggs's logarithms, and the artificial sines and tangents. Here are contained also, tables of those logarithms, sines, and tangents, copied from Gunter. The edition of these logarithms printed at London in 1635, and the former editions also, I suppose, has the units figures disposed along the tops of the columns, and the tens down the margins, like our tables at present; with the whole legarithm, which was only to six places of figures, in the angle of meeting: which is the first instance that I have seen of this mode of arrangement.

But proceed we now to the larger structure of logarithms.

Briggs had continued from the beginning to labour with great indistry at the computation of those logarithms of which he before published a short specimen in small numbers. And, in 1624, he produced his Arithmetica Logarithmica-a stupendous work for so short a time!-containing the logarithms of 30000 natural numbers, to fourteen places of figures besides the index, namely, from 1 to 20000, and from 90000 to 100000; together with the differences of the logu-rithms. Some writers say that there was another cluliad, namely, from 100000 to 101000; but none of the copies that I have seen have more than the 30000 above mentioned, and they were all regularly terminated in the usual way with the word FINIS. The preface to these logarithms contains, among other things, an account of the alteration made in the scale by Napier and himself, from which we before gave an extract; and an earnest solicitation to others to undertake the computation for the intermediate numbers, offering to give istractions, and paper ready ruled for that purpose, to any persons so indined to contribute to the completion of so valuable a work. the introduction, he gives also an ample treatise on the construction and uses of these logarithms, which will be particularly described bereafter.—By this invitation, and other means, he had hopes of collecting materials for the logarithms of the intermediate 70000 numbers, whilst he should employ his own labour more immediately on the canon of logarithmic sines and tangents, and so carry on both works at once; as indeed they were both equally necessary, and he himself was now pretty far advanced in years.

Soon after this, Adrian Vlacq, or Flack, of Gouda in Holland, completed the intermediate seventy chiliads, and republished the Arithmetica Logarithmica at that place, in 1627 and 1628, with those intermediate numbers, making in the whole the logarithms of all numbers to 100000, but only to ten places of figures. To these was added a table of artificial sines, tangents, and secants, to every minute of the

quadrant.

Briggs himself lived also to complete a table of logarithmic sines and tangents for the hundredth part of every degree, to fourteen places of figures besides the index; together with a table of natural sines for the same parts to fifteen places, and the tangents and secants for the same to ten places; with the construction of the whole. These tables were printed at Gouda, under the care of Adrian Vlacq, and mostly finished off before 1631, though not published till 1633. But his death, which then happened, prevented him from completing the application and uses of them. However, the performing of this office, when dying, he recommended to his friend Henry Gellibrand, who was then professor of astronomy in Gresham college, having succeeded Mr. Gunter in that appointment. Gellibrand accordingly added a preface, and the application of the logarithms to plane and spherical trigonometry, &c; and the whole was printed at Gouda by the same printer, and brought out in the same year, 1633, as the Trigonometria Artificialis of Vlacq, who had the care of the press as above said. This work was called Trigonometria Britannica; and besides the arcs in degrees and centesms of degrees, it has another column, containing the minutes and seconds answering to the several centesms in the first column.

In 1633, as mentioned above, Vlacq printed at Gouda, in Holland, his Trigonometria Artificialis; sive Magnus Canon Triangulorum Logarithmicus ad Decadas Secundorum Scrupulorum constructus. This work contains the logarithmic sines and tangents to ten places of figures, with their differences, for every ten seconds in the quadrant. To them is also added Briggs's table of the first 20000 logarithms, but

carried only to ten places of figures besides the index, with their differences. The whole is preceded by a description of the tables, and the

application of them to plane and spherical trigonometry, chiefly extracted from Briggs's Trigonometria Britannica, above mentioned.

Gellibrand published also, in 1635, An Institution Trigonometricall, containing the logarithms of the first 10000 numbers, with the natural sines, tangents, and secants, and the logarithmic sines and tangents, for degrees and minutes, all to seven places of figures, besides the index; as also other tables proper for navigation; with the uses of the whole. Gellibrand died the 9th of February 1636, in the 40th year of his age, to the great loss of the mathematical world.

Besides the persons hitherto mentioned, who were mostly computers of logarithms, many others have also published tables of those artificial numbers, more or less complete, and sometimes improved and varied in the manner and form of them. We may here just advert to

a few of the principal of these.

In 1626, D. Henrion published, at Paris, a treatise concerning Briggs's logarithms of common numbers from 1 to 20000, to eleven places of figures; with the sines and tangents to eight places only.

In 1631, was printed, at London, by one George Miller, a book containing Briggs's logarithms, with their differences, to ten places of figures besides the index, for all numbers to 100000; as also the logarithmic sines, tangents, and secants, for every minute of the quadrant;

with the explanation and uses in English.

The same year, 1631, Richard Norwood published his Trigonometrie; in which we find Briggs's logarithms for all numbers to 10000, and for the sines, tangents, and secants, to every minute, both to seven places besides the index.—In the conclusion of the trigonometry, he complains of the unfair practices of printing Vlacq's book in 1627 or 1628, and the book mentioned in the last article. His words are, " Now whereas I have here, and in sundry places in this book, cited Mr. Briggs his Arithmetica Logarithmica (lest I may seem to abuse the reader), you are to understand not the book put forth about a month since in English, as a translation of his, and with the same title; being nothing like his, nor worthy his name; but the book which himself put forth with this title in Latin, being printed at London anno 1621. And here I have just occasion to blame the ill dealing of these men, both in the matter before mentioned, and in printing a second edition of his Arithmetica Logarithmaca in Latin, whilst he lived, against his mind and liking; and brought them over to sell, when the first were unsold; so frustrating those additions which Mr. Briggs intended in his second edition, and moreover leaving out some things that were in the first edition, of special moment, a practice of very ill consequence, and tending to the great disparagement of such as take pains in this kind."

Francis Bonaventure Cavalerius published at Bologna, in 1632, his Directorium Generale Uranometricium, in which are tables of Briggs's logarithms of sines, tangents, secants, and versed sines, each to eight places, for every second of the first five minutes, for every five seconds from five to ten minutes, for every ten seconds from ten to twenty minutes, for every twenty seconds from twenty to thirty minutes, for

every thirty seconds from 30' to 1° 30', and for every minute in the rest of the quadrant: which is the first table of logarithmic versed sines that I know of. In this book are contained also the logarithms of the first ten chiliads of natural numbers, namely, from 1 to 10000, disposed in this manner: all the twenties at top, and from 1 to 19 on the side, the logarithm of the sum being in the square of meeting. In this work, also, I think Cavalerius gave the method of finding the area or spherical surface contained by various arcs described on the surface of a sphere; which had before been given by Albert Girard, in his Algebra, printed in the year 1629.

Also, in the Trigonometria of the same author, Cavalerius, printed in 1643, besides the logarithms of numbers from 1 to 1000, to eight places, with their differences, we find both natural and logarithmic sines, tangents, and secants, the former to seven, and the latter to eight places; namely, to every 10" of the first 30 minutes, to every 30" from 30' to 1°; and the same for their complements, or backwards through the last degree of the quadrant; the intermediate 88° being to

every minute only.

Mr. Nathaniel Roe, "Pastor of Benacre in Suffolke," also reduced the logarithmic tables to a contracted form, in his Tabulæ Logarithmicæ, printed at London in 1633. Here we have Briggs's logarithms of numbers from 1 to 100000, to eight places; the fifties placed at top, and from 1 to 50 on the side; also the first four figures of the logarithms at top, and the other four down the columns. They contain also the logarithmic sines and tangents to every 100th part of degrees, to ten places.

Ludovicus Frobenius published at Hamburg, in 1634, his Clavis Universa Trigonometriæ, containing tables of Briggs's logarithms of numbers, from 1 to 2000; and of sines, tangents, and secants, for every

minute; both to seven places.

But the table of logarithms of common numbers was reduced to its most convenient form by John Newton, in his Trigonometria Britamica, printed at London in 1658, having availed himself of both the improvements of Wingate and Roe, namely, uniting Wingate's disposition of the natural numbers with Roe's contracted arrangement of the logarithms, the numbers being all disposed as in our best tables at present, namely, the units along the top of the page, and the tens down the left-hand side, also the first three figures of each logarithm in the first column, and the remaining five figures in the other columns, the logarithms being to eight places. This work contains also the logarithmic sines and tangents, to eight figures besides the index, for every 100th part of a degree, with their differences, and for 1000th parts in the first three degrees.—In the preface to this work, Newton takes occasion, as Wingate and Norwood had done before, as well as Briggs himself, to censure the unfair practices of some other publishers of logarithms. He says, "In the second part of this institution, thou art presented with Mr. Gellibrand's Trigonometrie, faithfully translated from the Latin copy, that which the author himself published under. the title of Trigonometria Britannica, and not that which Vlacq the Dutchman styles Trigonometria Artificialis, from whose corrupt and

imperfect copy that seems to be translated which is amongst us generally known by the name of Gellibrand's Trigonometry; but those who either knew him, or have perused his writings, can testify that he was no admirer of the old sexagenary way of working; nay that he did preferre the decimal way before it, as he hath abundantly testified in all the examples of this his trigonometry, which differs from that other which Vlacq hath published, and that which hath hitherto borne his name in English, as in the form, so likewise in the matter of it; for in the two last mentioned editions, there is something left out in the second chapter of plain triangles, the third chapter wholly omitted, and a part of the third in the spherical; but in this edition nothing: something we have added to both, by way of explanation and demonstration."

In 1670, John Caramuel published his Mathesis Nova, in which are contained 1000 logarithms both of Napier's and Briggs's form, as also 1000 of what he calls the Perfect Logarithms, namely, the same as those which Briggs first thought of, which differ from the last only in this, that the one increases while the other decreases, the radix or loga-

rithm of the ratio of 10 to 1 being the same in both.

The books of logarithms have since become very numerous, but the logarithms are mostly of that kind invented by Briggs, and which are now in common use. Of these, the most noted for their accuracy or usefulness, besides the works above mentioned, are Vlacq's small volume of tables, particularly that edition printed at Lyons in 1670; also tables printed at the same place in 1760; but most especially the tables of Sherwin and Gardiner. Of these, Sherwin's Mathematical Tables, in 8vo. formed the most complete collection of any, containing, besides the logarithms of all numbers to 101000, the sines, tangents, accants, and versed sines, both natural and logarithmic, to every minute of the quadrant. The first edition was in 1706; but the third edition, in 1742, which was revised by Gardiner, is esteemed the most correct of any, though containing many thousands of errors in the final figures; as to the last or fifth edition, in 1771, it is so erroneously printed that no dependance can be placed in it, being the most inaccurate book of tables I ever knew; I have a list of several thousand errors which I have corrected in it, as well as in Gardiner's octavo edition.

Gardiner also printed at London, in 1742, a quarto volume of "Tables of Logarithms, for all numbers from 1 to 102100, and for the sines and tangents to every ten seconds of each degree in the quadrant; as also, for the sines of the first 72 minutes to every single second: with other useful and necessary tables;" namely, a table of Logistical Logarithms, and three smaller tables to be used for finding the logarithms of numbers to twenty places of figures. Of these tables of Gardiner, only a small number was printed, and that by subscription; and they have always been held in great estimation for their accuracy

and usefulness.

An edition of Gardiner's collection was also elegantly printed at Avignon in France, in 1770, with some additions, namely, the sines and tangents for every single second in the first four degrees, and a small table of hyperbolic logarithms, copied from a treatise on Fluxiona

by the late ingenious Mr. Thomas Simpson: but this is not quite so correct as Gardiner's own edition. The tables in all these books are to seven places of figures.

There have also lately appeared the following accurate and elegant

books of logarithms; viz.

1. Logarithmic Tables, by the late Mr. Michael Taylor, a pupil of mine, and author of The Sexagesimal Table. His work consists of three tables; 1st. the Logarithms of Common Numbers from 1 to 1260, each to 8 places of figures; 2dly, The Logarithms of all Numbers from 1 to 101000, each to 7 places; 3dly. The Logarithmic Sines and Tangents to every Second of the Quadrant, also to 7 places of figures; a work that must prove highly useful to such persons as may be employed in very nice and accurate calculations, such as astronomical tables, &c. The author dying when the tables were nearly all printed off, the Rev. Dr. Maskelyne, Astronomer Royal, has supplied a preface, containing an account of the work, with excellent precepts for the explanation and use of the tables: the whole very accurately and elegantly printed on large 4to. 1792.

2. "Tables Portatives de Logarithmes, publiées à Londres, par Gardiner," &c. This work is most beautifully printed in a neat portable avo volume, and contains all the tables in Gardiner's 4to volume, with some additions and improvements, and with a considerable degree of accuracy. On this, as well as several other occasions, it is but justice to remark the extraordinary spirit and elegance with which the learned men, and the artisans of the French nation, undertake and execute

works of merit. Printed at Paris, by Didot, 1793.

3. A second edition of the "Tables Portatives de Logarithmes," &c. printed at Paris with the Stereotypes, of solid pages, in 8vo, 1795, by Didot. This edition is greatly enlarged, by an extension of the old tables and many new ones; among which are the log. sincs and tangents to every ten thousandth part of the quadrant, viz. in which the quadrant is first divided into 100 equal parts, and each of these into 100 parts again.

4. Other more extensive tables, not yet quite completed, ordered by the Board of Longitude in France, and under the direction of M. Prony, in which the quadrant is decimally divided into 10000 equal parts.

"The logarithmic canon serves to find readily the logarithm of any assigned number; and we are told by Dr. Wallis, in the second volume of his Mathematical Works, that an antilogarithmic canon, or one to find as readily the number corresponding to every logarithm, was begun, he thinks, by Harriot the algebraist (who died in 1621), and completed by Walter Warner, the editor of Harriot's works, before 1640; which ingenious performance, it seems, was lost, for want of encouragement to publish it."

"A small specimen of such numbers was published in the Philosophical Transactions for the year 1714, by Mr. Long of Oxford; but it was not till 1742 that a complete antilogarithmic canon was published by Mr. James Dodson, wherein he has computed the numbers corresponding to every logarithm from 1 to 100000, for 11 places of figures."

## THE CONSTRUCTION OF LOGARITHMS, &c.

HAVING described the several kinds of logarithms, their rise and invention, their nature and properties, and given some account of the principal early cultivators of them, with the chief collections that have been published of such tables; proceed we now to deliver a more particular account of the ideas and methods employed by each author, and the peculiar modes of construction made use of by them.

And first, of the great inventor himself, Lord Napier.

Napier's Construction of Logarithms.

The Inventor of logarithms did not adapt them to the series of natural numbers 1, 2, 3, 4, 5, &c, as it was not his principal idea to extend them to all arithmetical operations in general; but he confined his labours to that circumstance which first suggested the necessity of the invention, and adapted his logarithms to the approximate numbers which express the natural sines of every minute in the quadrant, as

they had been set down by former writers on trigonometry.

The same restricted idea was pursued through his method of constructing the logarithms. As the lines of the sines of all arcs are parts of the radius, or sine of the quadrant, which was therefore called the rinus totus, or whole sine, he conceived the line of the radius to be described or run over, by a point moving along it in such a manner, that in equal portions of time it generated, or cut off, parts, in a decreasing geometrical progression, leaving the several remainders, or sines in geometrical progression also; while another point, in an indefinite line, described equal parts of it in the same equal portions of time; so that the respective sums of these, or the whole line generated, were always the arithmeticals or logarithms of these sines.

a 0 A 0

- 6 - 7

- X.C - Q

-11

Thus, az is the given radius, on which all the sines are Sines. Log. to be taken, and A&c, the indefinite line containing the logarithms; these lines being each generated by the motion of points, beginning at A, a. Now, at the end of the 1st, 2d, 3d, &c, moments, or equal small portions of time, the moving points being found at the places marked 1, 2, 3, &c, then za, z1, z2, z3, &c, will be the series of natural sines, and A 0 (or 0), A1, A2, A3, &c, will be their logarithms; supposing the point which generates az to move every where with a velocity decreasing in proportion to its distance from z, namely, its velocity in the points 0, 1, 2, 3, &c, to be respectively as the distances z0, z1, z2, z3, &c, while the velocity of the point generating the logarithmic line A&c, remains constantly the same as at first in the point A or 0.

Hitherto the author had not fully limited his system or scale of logarithms, having only supposed one condition or limitation, namely, that the logarithm of the radius az should be 0. Whereas two independent conditions, no matter what, are necessary to limit the scale or system of logarithms. It did not occur to him that it was proper to form the other limit, by affixing some particular value to an assigned

number, or part of the radius: but, as another condition was necessary, he assumed this for it, namely, that the two generating points should begin to move at a and A with equal velocities; or that the increments a 1 and A 1, described in the first moments, should be equal; as he thought this circumstance would be attended with some little ease in the computation. And this is the reason that, in his table, the natural sines and their logarithms, at the complete quadrant, have equal differences; and this is also the reason why his scale of logarithms happens accidentally to agree with what have since been called the hyperbolic logarithms, which have numeral differences equal to those of their natural numbers at the beginning; except only that these latter increase with the natural numbers, and his on the contrary decrease; the logarithm of the ratio of 10 to 1 being the same in both, namely 2:30258509.

And here, by the way, it may be observed, that Napier's manner of conceiving the generation of the lines of the natural numbers, and their logarithms, by the motion of points, is very similar to the manner in which Newton afterwards considered the generation of magnitudes in his doctrine of fluxions; and it is also remarkable, that, in art. 2 of the Habitudines Logarithmorum et suorum naturalium numerorum invicem, in the appendix to the Constructio Logarithmorum, Napier speaks of the velocities of the increments or decrements of the logarithms, in the same way as Newton does of his fluxions, namely, where he shows that those velocities, or fluxions, are inversely as the sines or natural numbers of the logarithms; which is a necessary consequence of the nature of the generation of those lines as described above; with this alteration however, that now the radius az must be considered as generated by an equable motion of the point, and the indefinite line A &c by a motion increasing in the same ratio as the other before decreased; which is a supposition that Napier must have had in view when he stated that relation of the fluxions.

Having thus limited his system, Napier proceeds, in the posthumous work of 1619, to explain his construction of the logarithmic canon; and this he effects in various ways, but chiefly by generating, in a very easy manner, a series of proportional numbers, and their arithmeticals or logarithms; and then finding, by proportion, the logarithms to the natural sines, from those of the nearest numbers among the original proportionals.

After describing the necessary cautions he made use of, to preserve a sufficient degree of accuracy, in so long and complex a process of calculation; such as annexing several ciphers, as decimals separated by a point, to his primitive numbers, and rejecting the decimals thence resulting after the operations were completed; setting the numbers down to the nearest unit in the last figure; and teaching the arithmetical processes of adding, subtracting, multiplying, and dividing the limits between which certain unknown numbers must lie, so as to obtain the limits between which the results must also fall: I say, after describing such particulars, in order to clear and smooth the way, he enters on the great field of calculation itself. Beginning at radius 100000000, he first constructs several descending geometrical series, but of such a nature, that they are all quickly formed by an easy con-

tinual subtraction, and a division by 2, or by 10, or 100, &c, which is done by only removing the decimal point so many places towards the left hand, as there are ciphers in the divisor. He constructs three tables of such series: The first of these consist of 100 numbers, in the proportion of radius to radius minus 1, or of 10000000 to 9999999; all of which are found by only subtracting from each its 10000000th part, which part is also found by only removing each figure seven places lower: the last of these 100 proportionals is found to be 999990000004950.

The 2d table contains 50 numbers, which are in the continual proportion of the first to the last in the first table, namely, of 10000000 00000000, to 9999900 0004950, or nearly the proportion of 100000 to 99999; these therefore are found by

No.	FIRST TABLE.	SECOND TABLE.
1 2 3 4 &c. 50 100	1000000.0000000 9999999.0000000 9999998.0000001 9999997.0000003 &c till the 100th term, which will be 9999900.0004950	10000000.000000 9999900.000000 9999800.001000 9999700.003000 &c to the 50th term 9995001.222927

only removing the figures of each number 5 places lower, and subtracting them from the same number: the last of these he finds to be 9995001.222927. And a specimen of these two tables is here annexed.

The 3d table consists of 69 columns, and each column of twenty-one numbers or terms, which terms, in every column, are in the continual proportion of 10000 to 9995, that is, nearly as the first is to the last in the 2d table; and as 10000 exceeds 9995, by the 2000th part, the terms in every column will be constructed by dividing each upper number by 2, removing the figures of the quotient 3 places lower, and then subtracting them; and in this way it is proper to construct only the first column of 21 numbers, the last of which will be 9900473.5780: but the 1st, 2d, 3d, &c, numbers, in all the columns, are in the continual proportion of 100 to 99, or nearly the proportion of the first to the last in the first column; and therefore these will be found by removing the figures of each preceding number two places lower, and subtracting them, for the like number in the next column. A specimen of this 3d table is as here below.

THE THIRD TABLE.							
Terms!	1st Column,	2d Column.	3d Column.	&c till the	69th Column.		
1	10000000.0000	9900000.0000	9801000.0000	&c to	5048858.8900		
2	9995000.0000	9895050.0000	9796099.5000	the 4th,	5046334.4605		
3	9990002.5000	9890102.4750	9791201.4503	5th, 6th,	5043811. <b>293</b> 9		
4	9985007.4987	9885157.4237	9786305.8495	7th, &c	5041289.3879		
5	9980014.9950	9680214.6451	9781412.6967	col. till	5038768.7435		
&c	&c till	&c	&c	the last	&c		
21	9900473.5780	9801468.8423	9703454.1539	or	4998609.4034		

Thus he had, in this 3d table, interposed between the radius and its half, 68 numbers in the continual proportion of 100 to 99; and interposed between every two of these, 20 numbers in the proportion

of 10000 to 9995: and again, in the 2d table, between 10000000 and 9995000, the two first of the third table, he had 50 numbers in the proportion of 100000 to 99999; and lastly, in the 1st table, between 10000000 and 9999900, or the two first in the 2d table, 100 numbers in the proportion of 10000000 to 9999999; that is, in all, about 1600 proportionals; all found in the most simple manner, by little more than easy subtractions; which proportionals nearly coincide with all the natural sines from 90° down to 30°.

To obtain the logarithms of all those proportionals, he demonstrates several properties and relations of the numbers and logarithms, and illustrates the manner of applying them. The principal of these properties are as follow: 1st, that the logarithm of any sine is greater than the difference between that sine and the radius, but less than the said difference when increased in the proportion of the sine to radius\*; and 2dly, that the difference between the logarithms of two sines is less than the difference of the sines increased in the proportion of the less sine to radius, but greater than the said difference of the sines increased in the proportion of the greater sine to radius. †

Hence, by the first theorem, the logarithm of 10000000, the radius or first term in the first table, being 0, the logarithm of 9999999, the 2d term, will be between 1 and 1.0000001, and will therefore be equal to 1.00000005 very nearly: and this will be also the common difference of all the terms or proportionals in the first table: therefore by the continual addition of this logarithm, there will be obtained the logarithms of all these 100 proportionals; consequently 100 times the mid first logarithm, or the last of the above sums, will give 100.000005, for the logarithm of 9999900 0004950, the last of the said 100 proportionals.

Then, by the 2d theorem, it easily appears, that '0004950 is the difference between the logarithms of 9999900.0004950 and 9999900. the last term of the first table, and the 2d term of the second table;

\*By this first theorem, r being radius, the logarithm of the sine s is between r-s and  $\frac{r-s}{s}r$ ; and therefore, when s differs but little from r, the logarithm of s will be nearly equal to  $\frac{(r+s)\times(r-s)}{2s}$ , the arithmetical mean between the limits r-s and  $\frac{r-s}{s}r$ ; but still nearer to  $(r-s)\sqrt{\frac{r}{s}}$  or  $\frac{r-s}{s}\sqrt{rs}$ , the geometrical mean between the said limits.

+ By this second theorem, the difference between the logarithms of the two sines S and s, lying between the limits  $\frac{S-s}{s}r$  and  $\frac{S-s}{S}r$ , will, when those sines differ but little, be nearly equal to  $\frac{S^2-s^2}{2Ss}r$  or  $\frac{(S+s)\times(S-s)}{Ss}r$ , their arithmetical mean; or nearly =  $\frac{S-s}{\sqrt{Ss}}r$ , the geometrical mean; or nearly =  $\frac{S-s}{S+s}$ 2r, by substituting in the last denominator,  $\frac{1}{2}(S+s)$  for  $\sqrt{S}s$ , to which it is nearly equal.

this then being added to the last logarithm, gives 100 0005000 for the logarithm of the said 2d term, as also the common difference of the logarithms of all the proportions in the 2d table; and therefore, by continually adding it, there will be generated the logarithms of all these proportionals in the second table; the last of which is 5000 025, answering to 9995001 222927, the last term of that table.

Again, by the 2d theorem, the difference between the logarithms of this last proportional of the second table, and the 2d term in the first column of the third table, is found to be 1.2235387; which being added to the last logarithm, gives 5001.2485387 for the logarithm of 9995000, the said 2d term of the third table, as also the common difference of the logarithms of all the proportionals in the first column of that table; and that this therefore being continually added, gives all the logarithms of that first column, the last of which is 100024.97077, the logarithm of 9900473.5780, the last term of the said column.

Finally, by the 2d theorem again, the difference between the logarithms of this last number and 9900000, the 1st term in the second column, is 478.3502; which being added to the last logarithm, gives 100503.3210 for the logarithm of the said 1st term in the second column, as well as the common difference of the logarithms of all the numbers on the same line in every line of the table, namely, of all the 1st terms, of all the 2d, of all the 3d, of all the 4th, &c terms in all the columns; and which therefore, being continually added to the logarithms in the first column, will give the corresponding logarithms in all the other columns.

And thus is completed what the author calls the radical table, in which he retains only one decimal place in the logarithms (or artificials, as he always call them in his tract on the construction), and four in the naturals. A specimen of the table is as here follows:

			RADICAL TA	BLE.		
Term:	1st Colu	mn.	2d Colu	ınn.	69th Column.	
	Naturals.	Artificials	Naturals.	Artificials	Naturals.	Artificials.
1	10000000.0000	o	9900000.0000	100508.3	5048858.8900	6834225.9
2	9995000.0000	5001.2	9895030.0000	195504.6	5046333.4605	6839227.1
3	9990002.5000	10002.5	9890102.4750	110505.8	5043811.2932	6844228.3
4	9985007.4987	15003.7	9885157.4237	115507.1	5041289.3879	6849229.6
5	9960014.9950	20003.0	9860214.8451	120508.3	5038765.7435	6854230.8
&c	&c till	<b>&amp;</b> c	&c	&c	&c	&c ,
21	9900473.5780	100025.0	9801468.8423	200528.2	4998609.4034	6934250.

Having thus, in the most easy manner, completed the radical table, by little more than mere addition and subtraction, both for the natural numbers and logarithms; the logarithmic sines were easily deduced from it by means of the 2d theorem, namely, taking the sum and difference of each tabular sine and the nearest number in the radical table, annexing 7 ciphers to the difference, dividing the result by the sum, then half the quotient gives the difference between the logarithms of the

said numbers, namely, between the tabular sine and radical number; consequently adding or subtracting this difference, to or from the given logarithm of the radical number, there is obtained the logarithmic sine required. And thus the logarithms of all the sines, from

radius to the half of it, or from 90° to 30°, were perfected.

Next, for determining the sines of the remaining 30 degrees, he In the first of these he proceeds in this mandelivers two methods. ner: Observing that the logarithm of the ratio of 2 to 1, or of half the radius, is 6931469.22, of 4 to 1 is the double of this, of 8 to 1 is triple of it, &c; that of 10 to 1 is 23025842.34, of 20 to I is the sum of the logarithms of 2 and 10; and so on, by composition for the logarithms of the ratios between 1 and 40, 80, 100, 200, &c, to 10000000; he multiplies any given sine, for an arc less than 30 degrees, by some of these numbers, till he finds the product nearly equal to one of the tabular numbers; then by means of this and the second theorem, the logarithm of this product is found; to which adding the logarithm that answers to the multiple above mentioned, the sum is the logarithm sought. But the other method is still much easier, and is derived from this property, which he demonstrates, namely, as half radius is to the sine of half an arc, so is the cosine of the said half arc, to the sine of the whole arc; or as I radius: sine of an arc:: cosine of the arc: sine of double arc; hence the logarithmic sine of an arc is found, by adding together the logarithms of half radius and of the sine of the double arc, and then subtracting the logarithmic cosine from the sum.

And thus the remainder of the sines, from 30° down to 0, are easily obtained. But in this latter way, the logarithmic sines for full one half of the quadrant, or from 0 to 45 degrees, he observes, may be derived; the other half having already been made by the general method of the radical table, by one easy division and addition or subtraction for each.

We have dwelt the longer on this work of the inventor of logarithms, because I have not seen, in any author, an account of his method of constructing his table, though it is perfectly different from any other method used by the later computers, and indeed, almost peculiar to his species of logarithms. The whole of this work manifests great ingenuity in the designer, as well as much accuracy. But notwithstanding the caution he took to obtain his logarithms true to the nearest unit in the last figure set down in the tables, by extending the numbers in the computations to several decimals, and other means, he had been disappointed of that end, either by the inaccuracy of his assistant computers or transcribers, or through some other cause; as the logarithms in the table are commonly very inaccurate. It is remarkable too, that in this tract on the construction of the logarithms, Lord Napier never calls them logarithms, but every where artificials, as opposed in idea to the natural numbers: and this notion of natural and artificial numbers, I take to have been his first idea of this matter, and that he altered the word artificials to logarithms in his first book, on the description of them, when he printedit, in the year 1614, and that he would also

have altered the word every where in this posthumous work if he had lived to print it: for in the two or three pages of appendix, annexed to the work by his son, from Napier's papers, he again always callsthem logarithms. This appendix relates to the change of the logarithms to that scale in which 1 is the logarithm of the ratio of 10 to 1, the logarithm of 1, with or without ciphers, being 0; and it appears to have been written after Briggs communicated to him his idea of

that change. Napier here in this appendix also briefly describes some methods by which this new species of logarithms may be constructed. Having supposed 0 to be the logarithm of 1, and 1, with any number of ciphers, as 1000000000, the logarithm of 10, he directs to divide this logarithm of 10, and the successive quotients, ten times by 5; by which divisions there will be obtained these other ten logarithms, namely, 200000000, 400000000, 80000000, 16000000, 3200000, 640000, 128000, 25600, 5120, 1024: then this last logarithm, and its quotients, being divided ten times by 2, will give these other ten logarithm, 512, 256, 128, 64, 32, 16, 8, 4, 2, 1. And the numbers answering to these twenty logarithms we are directed to find in this manner; namely, extract the 5th root of 10 (with ciphers), then the 5th root of that root, and so on, for ten continual extractions of the 5th root; so shall these ten roots be the natural numbers belonging to the first ten logarithms, above found in continually dividing by 5: next, out of the last 5th root we are to extract the square root, then the square root of this last root, and so on, for 10 successive extractions of the square root; so shall these last 10 roots be the natural numbers corresponding to the logarithms or quotients arising from the last ten divisions by the number 2. And from these twenty logarithms, 1, 2, 4, 8, 16, &c, and their natural numbers, the author observes that other logarithms and their numbers may be formed, namely, by adding the logarithms, and multiplying their corresponding numbers.

It is evident that this process would generate rather an antilogarithmic canon, such as Dodson's, than the table of Briggs; and that the method would also be very laborious, since, besides the very troublesome original extractions of the 5th roots, all the numbers would be very large, by the multiplication of which the successive secondary natural numbers are to be found.

Our author next mentions another method of deriving a few of the primitive numbers and their logarithms, namely, by taking continually geometrical means, first between 10 and 1, then between 10 and this mean, and again between 10 and the last mean, and so on; and taking the arithmetical means between their corresponding logarithms. He then lays down various relations between numbers and their logarithms; such as, that the products and quotients of numbers answer to the sums and differences of their logarithms, and that the powers and roots of numbers answer to the products and quotients of the logarithms by the index of the power or root, &c; as also that, of any two numbers whose logarithms are given, if each number be raised to the power denoted by the logarithm of the other, the two results

will be equal. He then delivers another method of making the logarithms to a few of the prime integer numbers, which is well adapted for constructing the common table of logarithms. This method easily follows from what has been said above; and it depends on this preperty, that the logarithm of any number in this scale, is 1 less than the number of places or figures contained in that power of the given number whose exponent is 10000000000, or the logarithm of 10, at less as to integer numbers, for they really differ by a fraction, as is shown by Mr. Briggs in his illustrations of these properties, printed at the end of this appendix to the construction of logarithms. I shall here set down one more of these relations, as the manner in which it is expressed is exactly similar to that of fluxions and fluents, and it is this: Of any two numbers, as the greater is to the less, so is the velocity of the increment or decrement of the logarithms at the less, to the velocity of the increment or decrement of the logarithms at the greater: that is, in our modern notation, as  $X: Y: \dot{y}$  to  $\dot{x}$ , where  $\dot{x}$  and  $\dot{y}$  are the fluxions of the logarithms of X and Y.

## Kepler's Construction of Logarithms.

The logarithms of Briggs and Kepler were both printed the same year, 1624; but as the latter are of the same kind as Napier's, we shall here give this author's construction of them, before proceeding to that of Briggs's. We have already (pa. 31 et seq.) described the nature and form of Kepler's logarithms, showing that they are of the same kind as Napier's, but only a little varied in the form of the table. It may also be added, that, in general, the ideas which these two masters had on this subject, were of the same nature: only it was more fully and methodically laid down by Kepler, who expanded, and delivered in a regular science, the hints that were given by the illustrious inventor. The foundation and nature of their methods of construction are also the same, but only a little varied in their modes of applying them. Kepler here, first of any, treats of logarithms in the true and genuine way of the measures of ratios, or proportions, as he calls them, and that in a very full and scientific manner: and this method of his was afterwards followed and abridged by Mercator, Halley, Cotes, and others, as we shall see in the proper places. Kepler first erects a regular and purely mathematical system of proportions, and the measures of proportions, treated at considerable length in a number of propositions, which are fully and chastely demonstrated by genuine mathematical reasoning, and illustrated by examples in numbers. This part contains and de-

<sup>\*</sup>Kepler almost always uses the term proportion instead of ratio, which I also shall do in my account of his work, as well as conform in expressions and notations to his other peculiarities. It may also be here remarked, that I observe the same practice in describing the works of other authors, the better to convey the idea of their several methods and style. And this may serve to account for some seeming inequalities in the language of this history.

monstrates both the nature and the principles of the structure of logarithms. And in the second part he applies those principles in the actual construction of his table, which contains only 1000 numbers, and their logarithms, in the form as we before described: and in this part he indicates the various contrivances employed in deducing the logarithms of proportions one from another, after a few of the leading ones had been first formed, by the general and more remote principles. He uses the name logarithms, given them by the inventor, being the most proper, as expressing the very nature and essence of those artificial numbers, and containing as it were a definition in the very name of them; but without taking any notice of the inventor, or of the origin of those useful numbers.

As this tract is very curious and important in itself, and is besides very rare and little known, instead of a particular description only, I shall here give a brief translation of both the parts, omitting only the demonstrations of the propositions, and some rather long illustrations of them. The book is dedicated to Philip, landgrave of Hesse, but is without either preface or introduction, and commences immediately with the subject of the first part, which is entitled The Demonstration of the Structure of Logarithms; and the contents of it are as

follow:

Postulate 1. That all proportions equal among themselves, by whatever variety of couplets of terms they may be denoted, are measured or expressed by the same quantity.

Axiom 1. If there be any number of quantities of the same kind, the proportion of the extremes is understood to be composed of all the proportions of every adjacent couplet of terms, from the first to the last.

1 Proposition. The mean proportional between two terms, divides

the proportion of those terms into two equal proportions.

Axiom 2. Of any number of quantities regularly increasing, the means divide the proportion of the extremes into one proportion more than the number of the means.

Postulate 2. That the proportion between any two terms is divisible into any number of parts, until those parts become less than any proposed quantity.

An example of this section is then inserted in a small table, in dividing the proportion which is between 10 and 7 into 1073741824 equal parts, by as many mean proportionals wanting one, namely, by taking the mean proportional between 10 and 7, then the mean between 10 and this mean, and the mean between 10 and the last, and so on for 20 means, or 30 extractions of the square root, the last or 30th of which roots is 99999999966782056900; and the 30th power of 2, which is 1073741824, shows into how many parts the proportion between 10 and 7, or between 1000&c, and 700&c, is divided by 1073741824 means, each of which parts is equal to the proportion between 1000&c, and the 30th mean 999&c, that is, the proportion between 1000&c, and 999&c, is the 1073741824th part of the proportion between 10 and 7. Then by assuming the small difference 0000000033217943100, for the measure of the very small element of the proportion of 10 to 7, or for the measure of the proportion of 1000&c, to 999&c. or for the logarithm of this last term, and multiplying it by 1073741824, the number of parts, the product gives 35667.49481.37222.14400, for the logarithm of the less term 7 or 700&c.

Postulate 3. That the extremely small quantity or element of a pro-

portion may be measured or denoted by any quantity whatever; as, for instance, by the difference of the terms of that element.

2 Proposition. Of three continued proportionals, the difference of the two first has to the difference of the latter two, the same proportion which the first term has to the 2d, or the 2d to the 3d.

3 Prop. Of any continued proportionals, the greatest terms have the

greatest difference, and the least terms the least.

4 Prop. In any continued proportionals, if the difference of the greatest terms be made the measure of the proportion between them, the difference of any other couplet will be less than the true measure of their proportion.

5 Prop. In continued proportionals, if the difference of the greatest terms be made the measure of their proportion, then the measure of the proportion of the greatest to any other term will be greater than their

difference.

6 Prop. In continued proportionals, if the difference of the greatest term and any one of the less, taken not immediately next to it, be made the measure of their proportion, then the proportion which is between the greatest and any other term greater than the one before taken, will be less than the difference of those terms; but the proportion which is between the greatest term, and any one less than that first taken, will be greater than their difference.

7 Prop. Of any quantities placed according to the order of their magnitudes, if any two successive proportions be equal, the three successive terms which constitute them will be continued propor-

tionals.

8 Prop. Of any quantities placed in the order of their magnitudes, if the intermediates lying between any two terms be not among the mean proportionals which can be interposed between the said two terms, then such intermediates do not divide the proportion of those two terms into commensurable proportions.

Besides the demonstrations, as usual, several definitions are here given; as of commensurable proportions, &cc.

9 Prop. When two expressible lengths are not to one another as two figurate numbers of the same species, such as two squares, or two cubes, there cannot fall between them other expressible lengths, which shall be mean proportionals, and as many in number as that species requires, namely, one in the squares, two in the cubes, three in the biquadrats, &c.

10 Prop. Of any expressible quantities, following in the order of their magnitudes, if the two extremes he not in the proportion of two square numbers, or two cubes, or two other powers of the same kind, none of the intermediates divide the proportion into commensurables.

11 Prop. All the proportions, taken in order, which are between expressible terms that are in arithmetical proportion, are incommensurable to one another. As between 8, 13, 18.

12 Prop. Of any quantities placed in the order of their magnitude, if

the difference of the greatest terms be made the measure of their proportion, then the difference between any two others will be less than the measure of their proportion; and if the difference of the two least terms be made the measure of their proportion, then the differences of the rest will be greater than the measure of the proportion between their terms.

Corol. If the measure of the proportion between the greatest exceed their difference, then the proportion of this measure to the said difference, will be less than that of a following measure to the difference of

its terms. Because proportionals have the same ratio.

13 Prop. If three quantities follow one another in the order of magnitude, the proportion of the two last will be contained in the proportion of the extremes, a less number of times than the difference of the two least is contained in the difference of the extremes: And, on the contrary, the proportion of the two greatest will be contained in the proportion of the extremes, oftener than the difference of the former is contained in that of the latter.

Corol. Hence, if the difference of the two greater be equal to the difference of the two less terms, the proportion between the two greater will be less than the proportion between the two less.

14 Prop. Of three equidifferent quantities, taken in order, the proportion between the extremes is more than double the proportion be-

tween the two greater terms.

Corol. Hence it follows, that half the proportion of the extremes is greater than the proportion of the two greatest terms, but less than the proportion of the two least.

15 Prop. If two quantities constitute a proportion, and each quantity be lessened by half the greater, the remainders will constitute a pro-

portion greater than double the former.

16 Prop. The aliquot parts of incommensurable proportions are incommensurable to each other.

17 Prop. If one thousand numbers follow one another in the natural order, beginning at 1000, and differing all by unity, viz. 1000, 999, 998, 997,&c; and the proportion between the two greatest 1000, 999, by continual bisection, be cut into parts that are smaller than the excess of the proportion between the next two 999, 998, over the said proportion between the two greatest 1000, 999; and then for the measure of that small element of the proportion between 1000 and 999, there be taken the difference of 1000 and that mean proportional which is the other term of the element. Again, if the proportion between 1000 and 998 be likewise cut into double the number of parts which the former proportion, between 1000 and 999, was cut into: and then for the measure of the small element in this division, be taken the difference of its terms, of which the greater is 1000. And in the same manner, if the proportion of 1000 to the following numbers, as 997, &c, by continual bisection, be cut into particles of such magnitude, as may be between and and of the element arising from the section of the first proportion between 1000 and 999, the measure

of each element will be given from the difference of its terms. Then, this being done, the measure of any one of the 1000 proportions will be composed of as many measures of its element as there are of those elements in the said divided proportion. And all these measures, for all the proportions, will be sufficiently exact for the nicest calculations.

All these sections and measures of proportions are performed in the manner of the described at postulate 2, and the operation is abundantly explained by superical calculations.

18 Prop. The proportion of any number, to the first term 1000, being known: there will also be known the proportion of the rest of the numbers in the same continued proportion, to the said first term.

So from the known proportion between 1000 and 900,

there is also known the proportion of 1000 to 810, and to 729;

And from 1000 to 800, also 1000 to 640, and to 512;

And from 1000 to 700, also 1000 to 490, and to 343;

And from 1000 to 600, also 1000 to 360, and to 216;

And from 1000 to 500, also 1000 to 250, and to 125.

Corol. Hence arises the precept for squaring, cubing, &c; as also for extracting the square root, cube root, &c, out of the first figures of numbers. For it will be, as the greatest number of the chiliad, as a denominator, is to the number proposed as a numerator, so is this to the square of the fraction, and so is this to the cube.

19 Prop. The proportion of a number to the first, or 1000, being known; if there be two other numbers in the same proportion to each other, then the proportion of one of these to 1000 being known, there will also be known the proportion of the other to the same 1000.

Corol. 1. Hence from the 15 proportions mentioned in prop. 18, will be known 190 others below 1000 to the same 1000

will be known 120 others below 1000, to the same 1000.

For so many are the proportions, equal to some one or other of the said 15, that are among the other integer numbers which are less than 1000.

Corol. 2. Hence arises the method of treating the Rule-of-Three, when 1000 is one of the given terms.

For this is effected by adding to, or subtracting from, each other, the measures of the two proportions of 1000 to each of the other two given numbers, according as 1000 is, or is not, the first term in the Rule-of-Three.

20 Prop. When four numbers are proportional, the first to the second as the third to the fourth, and the proportions of 1000 to each of the three former are known, there will also be known the proportion of 1000 to the fourth number.

Corol. 1. By this means other chiliads are added to the former.

Corol. 2. Hence arises the method of performing the Rule-of-Three, when 1000 is not one of the terms. Namely, from the sum of the measures of the proportions of 1000 to the second and third, take that of 1000 to the first, and the remainder is the measure of the proportion of 1000 to the fourth term.

Definition. The measure of the proportion between 1000 and any less number as before described, and expressed by a number, is set opposite to that less number in the chiliad, and is called its LOGA-RITHM, that is, the number (acidnes) indicating the proportion (λογον) which 1000 bears to that number, to which the logarithm is annexed.

21 Prop. If the first or greatest number be made the radius of a circle, or sinus totus; every less number, considered as the cosine of some arc, has a logarithm greater than the versed sine of that arc, but less than the difference between the radius and sceant of the arc; except only in the term next after the radius, or greatest term, the logarithm of which, by the hypothesis, is made equal to the versed sine.

That is, if CD be made the logarithm of AC, or the measure of the proportion of AC to AD, then the measure of the proportion of AB to AD, that is the logarithm of AB, will be greater than BD, but less than EF. And this is the same as Napier's first rule in page 45.



22 Prop. The same things being supposed; the sum of the versed sine and excess of the secant over the radius, is greater than double the logarithm of the cosine of an arc.

Corol. The log cosine is less than the arithmetical mean between the versed sine and the excess of the secant.

Precept 1. Any sine being found in the canon of sines, and its defect below radius to the excess of the secant above radius, then shall the logarithm of the sine be less than half that sum, but greater than the said defect or coversed sine.

Let there be the sine 99970 1490 of an are: Its defect below radius is 29 8510 the covers 29 8510 the covers, and less than the log. sine: Add the excess of the secant 29 8599

Sum 59 7109 its haif or 29.8555 greater than the logarithm. Therefore the log, is between 29 8510 and 20.8555

Precept 2. The logarithm of the sine being found, you will also find nearly the logarithm of the round or integer number, which is next less than the sine with a fraction, by adding that fractional excess to the logarithm of the said sine.

Thus, the logarithm of the sine 90070 149 is found to be about 29.854; if now the logarithm of the round number 90070 000 be required, add 149, the fractional part of the sine, to its logarithm, observing the point, thus,

29.854 140

the sum 30.003 is the log, of the round number 99970.000 nearly.

23 Prop. Of three equidifferent quantities, the measure of the proportion between the two greater terms, with the measure of the proportion between the two less terms, will constitute a proportion, which will be greater than the proportion of the two greater terms, but less than the proportion of the two least.

Thus if AB, AC, AD, be three quantities, having the equal differences BC, CD; and if the measure of the proportion of AD, AC be cd, and that of AC, AB be be; then the proportion of cd to cb will be greater than the proportion of AC to AD, but less than the proportion of AB to AC.

1	1	1	1
$\frac{1}{\Lambda}$	В	C	D
	1	1	1
	b	¢	d

24 Prop. The said proportion between the two measures is less than half the proportion between the extreme terms. That is, the proportion between bc, cd, is less than half the proportion between AB, AD.

Corol. Since therefore the arithmetical mean divides the proportion into unequal parts, of which the one is greater, and the other less, than half the whole; if it be inquired what proportion is between these proportions, the answer is, that it is a little less than the said half.

An Example of finding nearly the limits, greater and less, to the measure of any proposed proportion.

It being known that the measure of the proportion between 1000 and 900 is 10536.05, required the measure of the proportion 900 to 800, where the terms 1000, 900, 800, have equal differences. Therefore as 9 to 10, so 10536.05 to 11706.72, which is less than 11778.30 the measure of the proportion 9 to 8. Again, as the mean proportional between 8 and 10 (which is 8.9442719) is to 10, so 10536.05 to 11779.00, which is greater than the measure of the proportion between 9 and 8.

Axiom. Every number denotes an expressible quantity.

25 Prop. If the 1000 numbers differing by 1, follow one another in the natural order; and there be taken any two adjacent numbers, as the terms of some proportion; the measure of this proportion will be to the measure of the proportion between the two greatest terms of the chiliad, in a proportion greater than that which the greatest term 1000 bears to the greater of the two terms first taken, but less than the proportion of 1000 to the less of the said two selected terms.

So, of the 1000 numbers, taking any two successive terms, as 501 and 500, the legarithm of the former being 69114.92, and of the latter 69314.72, the difference of which is 199.80. Therefore, by the definition, the measure of the proportion between 501 and 500 is 199.80. In like manner, because the logarithm of the greatest term 1000 is 0, and of the next 999 is 100.05, the difference of these logarithms, and the measure of the proportion between 1000 and 999, is 100.05. Couple now the greatest term 1000 with each of the selected terms 501 and 500; couple also the measure 199.80 with the measure 100.05; so shall the proportion between 199.80 and 100.05, be greater than the proportion between 1000 and 501, but less than the proportion between 1000 and 500.

Corol. 1. Any number below the first 1000 being proposed, as also its logarithm, the differences of any logarithms antecedent to that

proposed, towards the beginning of the chiliad, are to the first logarithm (viz. that which is assigned to 999) in a greater proportion than 1000 to the number proposed; but of those which follow towards the last logarithm, they are to the same in a less proportion.

Corol. 2. By this means, the places of the chiliad may easily be filled up, which have not yet had logarithms adapted to them by the

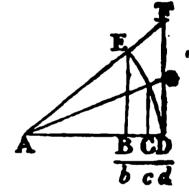
former propositions.

26 Prop. The difference of two logarithms, adapted to two adjacent numbers, is to the difference of these numbers, in a proportion greater than 1000 bears to the greater of those numbers, but less than that of 1000 to the less of the two numbers.

This 26th prop. is the same as Napier's second rule, at page 45.

27 Prop. Having given two adjacent numbers, of the 1000 natural numbers, with their logarithmic indices, or the measures of the proportions which those absolute or round numbers constitute with 1000, the greatest; the increments, or differences, of these logarithms, will be to the logarithm of the small element of the proportions, as the secants of the arcs whose cosines are the two absolute numbers, is to the greatest number, or the radius of the circle; so that, however, of the said two secants, the less will have to the radius a less proportion than the proposed difference has to the first of all, but the greater will have a greater proportion, and so also will the mean proportional between the said secants have a greater proportion.

Thus if BC, CD be equal, also bd the logarithm of AB, and cd the logarithm of AC; then the proportion of bc to cd will be greater than the proportion of AG to AD, but less than that of AF to AD, and also less than that of the mean proportional between AF and AG to AD.



Corol. 1. The same obtains also when the two terms differ, not only by the unit of the small element, but by another unit, which may be

ten fold, a hundred fold, or a thousand fold of that.

Corol. 2. Hence the differences will be obtained sufficiently exact, especially when the absolute numbers are pretty large, by taking the arithmetical mean between two small secants, or (if you will be at the labour) by taking the geometrical mean between two larger secants, and then by continually adding the differences, the logarithms will be produced.

Corol. 3. Precept. Divide the radius by each term of the assigned proportion, and the arithmetical mean (or still nearer the geometrical mean) between the quotients, will be the required increment; which being added to the logarithm of the greater term, will give the lo-

garithm of the less term.

## Example.

Let there be given the logarithm of 700, viz. 35667.4948, to find the log. to 609.

Here radius divided by 700 gives 1428571 &c.

and divided by 699 gives 1430672 &c.

the arithmetic. mean is 142.962

which added to 35667.4948

gives the logarithm to 699 35810.4568

Corol. 4. Precept for the logarithms of sines.

The increment between the logarithms of two sines, is thus found: find the geometrical mean between the cosecants, and divide it by the difference of the sines, the quotient will be the difference of the logarithms.

## Example.

© 1' sine 2909 cosec. 343774682 The quotient 80000 exceeds the required increment of the logarithms, because the secants are here so large.

dif. 2009 geom. mean 2428 nearly.

Appendix. Nearly in the same manner it may be shown, that the second differences are in the duplicate proportion of the first, and the third in the duplicate of the second. Thus, for instance, in the beginning of the logarithms, the first difference is 100.00000, viz. equal to the difference of the numbers 100000.00000 and 99900.00000; the second or difference of the differences, 10000; the third 20. Again, after arriving at the number 50000.00000, the logarithms have for a difference 200.00000, which is to the first difference, as the number 100000.00000 to 50000.00000; but the second difference is 40000, in which 10000 is contained 4 times; and the third 328, in which 20 is contained 16 times. But since in treating of new matters we labour under the want of proper words, therefore, lest we should become too obscure, the demonstration is omitted untried.

28 Prop. No number expresses exactly the measure of the proportion between two of the 1000 numbers, constituted by the foregoing method.

29 Prop. If the measures of all proportions be expressed by numbers or logarithms; all proportions will not have assigned to them their due portion of measure, to the utmost accuracy.

30 Prop. If to the number 1000, the greatest of the chiliad, be referred others that are greater than it, and the logarithm of 1000 be made 0, the logarithms belonging to those greater numbers will be negative.

This concludes the first or scientific part of the work, the principles of which Kepler applies, in the second part, to the actual construction of the first 1000 logarithms, which construction is pretty minutely described. This part is entitled A very compendious Method of constructing the Chiliad of Logarithms; and it is not improperly so called, the method being very concise and easy. The fundamental principles are briefly these: That at the beginning of the logarithms, their in-

crements or differences are equal to those of the natural numbers: that the natural numbers may be considered as the decreasing cosines of increasing arcs; and that the secants of those arcs at the beginning have the same differences as the cosines, and therefore the same differences as the logarithms. Then, since the secants are the reciprocals of the cosines, by these principles and the third corollary to the 27th proposition, he establishes the following method of constituting the 100 first or smallest logarithms to the 100 largest numbers, 1000, 999, 998, 997, &c, to 900. viz. Divide the radius 1000, increased with seven ciphers, by each of these numbers separately, disposing the quotients in a table, and they will be the secants of those arcs which have the divisors for their cosines; continuing the division to the 8th figure, as it is in that place only that the arithmetical and geometrical means Then by adding successively the arithmetical means between every two successive secants, the sums will be the series of logarithms. Or by adding continually every two secants, the successive sums will be the series of the double logarithms.

Besides these 100 logarithms, thus constructed, he constitutes two others by continual bisection, or extractions of the square root, after the manner described in the second postulate. And first he finds the logarithm which measures the proportion between 100000.00 and 97656.25, which latter term is the third proportional to 1024 and 1000, each with two ciphers; and this is effected by means of twentyfour continual extractions of the square root, determining the greatest term of each of twenty-four classes of mean proportionals; then the difference between the greatest of these means and the first or whole number 1000, with ciphers, being as often doubled, there arises 2371.6526 for the logarithm sought, which made negative is the loga-Secondly, the like process is repeated for the proporrithm of 1024. tion between the numbers 1000 and 500, from which arises 69314.7193 for the logarithm of 500; which he also calls the logarithm of duplication, being the measure of the proportion of 2 to 1.

Then from the foregoing he derives all the other logarithms in the chiliad, beginning with those of the prime numbers 1, 2, 3, 5, 7, &c, in the first 100. And first, since 1024, 512, 256, 128, 64, 32, 16, 8, 4, 2, 1, are all in the continued proportion of 1000 to 500, therefore the proportion of 1024 to 1 is decuple of the proportion of 1000 to 500, and consequently the logarithm of 1 would be decuple of the logarithm of 500, if 0 were taken as the logarithm of 1024; but since the logarithm of 1024 is applied negatively, the logarithm of 1 must be diminished by as much: diminishing therefore 10 times the logarithm of 500, which is 693147.1928, by 2371.6526, the remainder 690775.5422 is the logarithm of 1, or of 100.00, what is set down in the table.

And because 1, 10, 100, 1000, are continued proportionals, therefore the proportion of 1000 to 1 is triple of the proportion of 1000 to 100, and consequently \(\frac{1}{3}\) of the logarithm of 1 is to be put for the logarithm of 100, viz. 230258.5141, and this is also the logarithm of decuplication, or of the pro-

-	Nos.	Logarithms.
	100	230258.5141
ı	10	460517.0282
	1	690775.5429
	.1	921034.0563
	.01	1151292.5708
	.001	1381551.0844
-	.0001	1611809.5985

portion of 10 to 1. And hence, multiplying this logarithm of 100 successively by 2, 3, 4, 5, 6, and 7, there arise the logarithms to the numbers in the decuple proportion, as in the margin.

Also if the logarithm of duplication, or of the proportion of 2 to 1, be taken from the logarithm of 1, there will remain the logarithm of 2; and from the logarithm of 2 taking the logarithm of 10, there remains the logarithm of the proportion of 5 to 1; which taken from the logarithm of 1, there remains the logarithm of 5. See the margin.

Log. of 1 of 2 to 1	690775.5422 69314.7193
log. of 2 log. of 10	621460.8229 460517.0281
of 5 to 1	160.443.7948
log. of 5	529831.7474

For the logarithms of other prime numbers, he has recourse to those of some of the first or greatest century of numbers, before found, viz. of 999, 998, 997, &c. And first, taking 960, whose logarithm is 4082.2001; then by adding to this logarithm the logarithm of duplication, there will arise the several logarithms of all those numbers, which are in duplicate proportion continued from 960, namely 480, 240, 120, 60, 30, 15. Hence, the logarithm of 30 taken from the logarithm of 10, leaves the logarithm of the proportion of 3 to 1; which taken from the logarithm of 1, leaves the logarithm of 3, viz. 580914.3106. And the double of this diminished by the logarithm of 1, gives 471053.0790 for the logarithm of 9.

Next, from the logarithm of 990, or  $9 \times 10 \times 11$ , which is 1005.0331, he finds the logarithm of 11, namely, subtract the sum of the logarithms of 9 and 10 from the sum of the logarithm of 990 and double the logarithm of 1, there remains 450986.0106 the logarithm of 11.

Again, from the logarithm of 980, or  $2 \times 10 \times 7 \times 7$ , which is 2020.2711, he finds 496184.5228 for the logarithm of 7.

And from 5129.3303 the logarithm of 950, or  $5 \times 10 \times 19$ , he finds 396331.6392 for the logarithm of 19.

In like manner the logarithm

to 998 or  $4 \times 13 \times 19$ , gives the logarithm of 13; to 969 or  $3 \times 17 \times 19$ , gives the logarithm of 17; to 986 or  $2 \times 17 \times 29$ , gives the logarithm of 29; to 966 or  $6 \times 7 \times 23$ , gives the logarithm of 23; to 930 or  $3 \times 10 \times 31$ , gives the logarithm of 31.

And so on for all the primes below 100, and for many of the primes in the other centuries up to 900. After which, he directs to find the logarithms of all numbers composed of these, by the proper addition and subtraction of their logarithms, namely, in finding the logarithm of the product of two numbers, from the sum of the logarithms of the two factors take the logarithm of 1, the remainder is the logarithm of the product. In this way he shows that the logarithms of all numbers under 500 may be derived, except those of the following 36 numbers, namely, 127, 149, 167, 173, 179, 211, 223, 251, 257, 263, 269, 271, 277, 281, 283, 293, 337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409, 419, 421, 431, 433, 439, 443, 449. Also, besides the composite numbers between 500 and 900, made up of the products of some numbers whose logarithms have been before determined, there will be 59 primes not composed

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of them; which, with the 36 above mentioned, make 95 numbers in all, not composed of the products of any before them, and the logarithms of which he directs to be derived in this manner; namely, by considering the differences of the logarithms of the numbers interspersed among them: then by that method by which were constituted the differences of the logarithms of the smallest 100 numbers in a continued series, we are to proceed here in the discontinued series, that is, by prop. 27, corol. 3, and especially by the appendix to it, if it be rightly used, whence those differences will be very easily

supplied.

This closes the second part, or the actual construction of the logarithms; after which follows the table itself, which has been before described, pa. 32. Before dismissing Kepler's work, however, it may not be improper in this place to take notice of an erroneous property laid down by him in the appendix to the 27th prop. just now referred to; both because it is an error in principle, tending to vitiate the practice, and because it serves to show that Kepler was unacquainted with the true nature of the orders of differences of the logarithms, notwithstanding what he says above with respect to the construction of them by means of their several orders of differences, and that consequently he has no legal claim to any share in the discovery of the differential method, known at that time to Briggs, and it would seem to him alone, it being published in his logarithms in the same year, 1624, as Kepler's book, together with the true nature of the logarithmic orders of differences, as we shall presently see in the following account of his works. Now this error of Kepler's here alluded to, in in that expression where he says the third differences are in the duplicate ratio of the second differences, like as the second differences are in the duplicate ratio of the first; or, in other words, that the third differences are as the squares of the second differences, as well as the second differences as the squares of the first; or that the third differences are as the fourth powers of the first differences. Whereas in truth the third differences are only as the cubes of the first differences. Kepler seems to have been led into this error by a mistake in his numbers, viz. when he says in that appendix, that the third difference is 328, in which 20 is contained 16 times; for when the numbers are accurately computed, the third difference comes out only 161, in which therefore 20 is contained only 8 times, which is the cube of 2, the number of times the one first difference contains the other. It would hence seem that Kepler had hastily drawn the above erroneous principle from this one numerical example, or little more, false as it is: for had he made the trial in many instances, though erroneously computed, they could not easily have been so uniformly so, as to afford the same false conclusion. And therefore from hence, and what he says at the conclusion of that appendix, it may be inferred, that he either never attempted the demonstration of the property in question. or else that he found himself embarrassed with it, and unable to accomplish it, and therefore dispatched it in the ambiguous manner in which it appears.

But it may easily be shown, not only that the third differences of the

logarithms at different places, are as the cubes of the first differences; but, in general, that the numbers in any one and the same order of differences, at different places, are as that power of the numbers in the first differences, whose index is the same as that of the order: or that the second, third, fourth, &c, differences, will be as the second, third, fourth, &c, powers of the first differences. For the several orders of differences, when the absolute numbers differ by indefinitely small parts, are as the several orders of fluxions of the logarithms; but if

where  $\frac{mx}{x}$  is the fluxion of the logarithm of x, to the modulus m, and the second fluxion, or the fluxion of this fluxion, is  $\frac{mx^2}{x^2}$ , since x is constant: and the third, fourth, &c, fluxions  $\frac{2mx^3}{x^3}$ ,  $\frac{2 \cdot 3mx^4}{x^4}$ , &c; that is, the first, second, third, fourth, fifth, inth, &c, orders of fluxions, are equal to the modulus m multiplied into each of these terms,

$$\frac{\dot{x}}{x}$$
,  $\frac{1\dot{x}^2}{x^2}$ ,  $\frac{1.2\dot{x}^3}{x^3}$ ,  $\frac{1.2.3\dot{x}^4}{x^4}$ ,  $\frac{1.2.3.4\dot{x}^5}{x^5}$ ,  $\frac{1.2.3.4.5\dot{x}^6}{x^6}$ , &c

there it is evident, that the fluxion of any order is as that power of the fast fluxion, whose index is the same as the number of the order. And these quantities would actually be the several terms of the differences themselves, if the differences of the numbers were indefinitely small. But they vary the more from them, as the differences of the theolute numbers differ from x, or as the said constant numerical difference 1 approaches towards the value of x the number itself. However, on the whole, the several orders vary proportionably, so as still sensibly to preserve the same analogy, namely, that two nth differences are in proportion as the nth powers of their respective first differences.

# Of Briggs's Construction of his Logarithms.

Nearly according to the methods described in page 48, Mr. Briggs constructed the logarithms of the prime numbers, as appears from his relation of this business in the Arithmetica Logarithmica, printed in 1624, where he details, in an ample manner, the whole construction and use of his logarithms. The work is divided into 32 chapters or sections. In the first of these, logarithms in a general sense are defined, and some properties of them illustrated. In the second chapter he remarks, that it is most convenient to make 0 the logarithm of 1; and on that supposition he exemplifies these following properties, namely, that the logarithms of all numbers are either the indices of powers, or proportional to them; that the sum of the logarithms of two or more factors, is the logarithm of their product; and that the difference of the logarithms of two numbers, is the logarithm of their quotient. In the third section, he states the other assumption which

is necessary to limit his system of logarithms, namely, making I the logarithm of 10, as that which produces the most convenient form of logarithms: He hence also takes occasion to show that the powers of 10, namely, 100, 1000, &c, are the only numbers which can have rational logarithms. The fourth section treats of the characteristic; by which name he distinguishes the integral, or first part, of a logarithm towards the left hand, which expresses I less than the number of integer places or figures in the number belonging to that logarithm, or how far the first figure of this number is removed from the place of units; namely, that 0 is the characteristic of the logarithms of all numbers from 1 to 10; and 1 the characteristic of all those from 10 to 100; and 2 that of those from 100 to 1000; and so on.

He begins the fifth chapter with remarking, that his logarithms may chiefly be constructed by the two methods which were mentioned by Napier, as above related, and for the sake of which he here premises several lemmata, concerning the powers of numbers and their indices, and how many places of figures are in the products of numbers, observing that the product of two numbers will consist of as many figures as there are in both factors, unless perhaps the product of the first figures in each factor be expressed by one figure only, which often happens, and then commonly there will be 1 figure in the product less than in the two factors; as also that, of any two of the terms in a series of geometricals, the results will be equal by raising each term to the power denoted by the index of the other; or any number raised to the power denoted by the logarithm of the other, will be equal to this latter number raised to the power denoted by the logarithm of the former; and consequently if the one number be 10, whose logarithm is one with any number of ciphers, then any number raised to the power whose index is 1000 &c, or the logarithm of 10, will be equal to 10 raised to the power whose index is the logarithm of that number; that is, the logarithm of any number in this scale, where 1 is the logarithm of 10, is the index of that power of 10 which is equal to the given But the index of any integral power of 10, is 1 less than the number of places in that power, consequently the logarithm of any other number, which is no integral power of 10, is not quite one less than the number of places in that power of the given number whose index is 1000 &c, or the logarithm of 10.

Find therefore the 10th, or 100th, or 1000th, &c, power of any number, as suppose 2, with the number of figures in such power; then shall that number of figures always exceed the logarithm of 2, though

the excess will be constantly less than 1.

An example of this process is here given in the margin; where the 1st column contains the several powers of 2, the 2d their corresponding indices, and the 3d contains the number of places in the powers in the first cohamn; and of these numbers in the third column, such as are on the lines of those indices that consist of 1 with ciphers, are continual approximations to the logarithm of 2, being always too great by less than 1 in the last figure, that logarithm being 30102999566398 &c.

And here, since the exact lowers of 2 are not required, but only the number of figures they consist of, as shown by the third column, only a few of the first figures of the powers in the first column are retained, those being sufficient to determine the number of places in them; and the multiplications in raising these powers are performed in a contracted way, so as to have the fifth or last figure in them true to the near-est unit. Indeed these multiplications might be performed in the same manner, retaining. only the first three figures, and those to the nearest unit in the third place; which would make this a very easy way indeed of finding the logarithms of a few prime numbers.

Powers (		No. of places or
of a	Indaes.	logn,
2	1	1
4	Q	i
16	4	2
256	8	3
1094	10	4 log. of 2
10486	20	7 log of 4
10995	40	13 log of 16
12069	80	25 log of 256
12676	100	31 log. of 2
16069		61 log of 4
25823		121 log 16
66680	800	241 log 256
10715	1000	302 log. 2
11481		603 log. 4
13182	4000	1205 log. 16
17377	8000	2400 log 256
19950	10000	3011 log. 2
39603	20000	6021 log 4
15843		12042 log. 16
25099	80000	24083 log. 256
99900		30103 log 3
99801	200000	60206 log. 4
99601	400000	120412 8
99204	H00000	240624
99006	1000000	301030
98023	2000000	602060
96055	4000000	1204120
92323	5000000	240b240
90496	10000000	3010300
ь1899	20000000	6020600
67075	40000000	12041200
44990	80000000	24062400
36846	0.110119191919	30103000
13577	200000000	60206000
18433	400000000	120411999
33977	500000000	240823997
46129	1000000000	301029996
iose se	veral powers.	whose indices

It may also be remarked, that those several powers, whose are 1 with ciphers, are raised by thrice squaring from the former powers, and multiplying the first by the third of these squares; making also the corresponding doublings and additions of their indices: thus, the square of 2 is 4, and the square of 4 is 16, the square of 16 is 256, and 256 multiplied by 4 is 1021; in like manner, the double of 1 is 2, the double of 2 is 4, the double of 4 is 8, and 8 added to 2 makes 10. And the same for all the following powers and indices. The numbers in the third column, which show how many places are in the corresponding powers in the first column, are produced in the very same way as those in the second column, namely, by three

duplications and one addition; only observing to subtract 1 when the product of the first figures are expressed by one figure, or when the first figures exceed those of the number or power next above them. It may further be observed, that, like as the first number in each quaternion, or space of four lines or numbers, in the third column, approximates to the logarithm of 2, the first number in the first quaternion of the first column; so the second, third, and fourth terms of each quaternion in the third column, approximate to the logarithm of 4, 16, and 256, the second, third, and fourth numbers in the first quaternion in the first column. And moreover, by cutting off one, two, three, &c, figures, as the index or integral part, from the said logarithms of 2, 4, 16, and 256, the first, second, third, and fourth numbers in the first quaternion of the first column, the remaining figures will be the decimal part of the logarithms of the corresponding first, second, third, and fourth numbers in the following second, third, fourth, &c, quaternions: the reason of which is, that any number of any quaternion in the first column, is the tenth power of the corresponding term in the next preceding quaternion. So that the third column contains the logarithms of all the numbers in the first column: a property which if Dr. Newton had been aware of, he could not well have committed such gross mistakes as are found in a table of his similar to that above given, in which most of the numbers in the latter quaternions are totally erroneous; and his confused and imperfect account of this method would induce one to believe that he did not well understand it.

In the 6th chapter our illustrious author begins to treat of the other general method of finding the logarithms of prime numbers, which he thinks an easier way than the former, at least when the logarithm is required to a great many places of figures. This method consists in taking a great number of continued geometrical means between 1 and the given number, whose logarithm is required; that is, first extracting the square root of the given number, then the root of the first root, the root of the second root, the root of the third root, and so on till the last root shall exceed 1 by a very small decimal, greater or less according to the intended number of places to be in the logarithm sought: then finding the logarithm of this small number, by methods described below, he doubles it as often as he made extractions of the square root, or, which is the same thing, he multiplies it by such power of 2 as is denoted by the said number of extractions, and the result is the required logarithm of the given number; as is evident from the nature of logarithms. The rule to know how far to continue this extraction of roots is, that the number of decimal places in the last root be double the number of true places required to be found in the logarithm, and that the first half of them be ciphers; the integer being 1: the reason of which is, that then the significant figures in the decimal, after the ciphers, are directly proportional to those in the corresponding logarithms; such figures in the natural number being the half of those in the next preceding number, like as the logarithm of the last number is the half of the preceding logarithm. Therefore any one such small number, with

its logarithm, being once found by the continual extractions of square roots out of a given number, as 10, and corresponding bisections of its given logarithm 1; the logarithm for any other such small number, derived by like continual extractions from another given number, whose logarithm is sought, will be found by one single proportion: which logarithm is then to be doubled according to the number of extractions, or multiplied at once

ber of extractions, or multiplied at once by the like power of 2, for the loganthm of the number proposed. To find the first small number and its logarithm, our author begins with the number 10 and its logarithm 1, and extracts contimulty the root of the last number and bisects its logarithm, as here re-

	'10, given no.	1, its log.
1	3.162277 &c.	0.5
2	1.778279	0.25
3	1, 333521	0.125
4	1-154781	0.0625
5	1.074607	0.03125
	8cc.	&c.

gistered in the margin, but to far more places of figures, till he arrives at the 53d and 54th roots, with their annexed logarithms, as here below:

where the decimals in the natural numbers are to each other in the ratio of the logarithms, namely, in the ratio of 2 to 1: and therefore any other such small number being found, by continual extraction or otherwise, it will then be as 12781, &c, is to 5551 &c, so is that other small decimal, to the corresponding significant figures of its logarithm. But as every repetition of this proportion requires both a very long multiplication and division, he reduces this constant ratio to another equivalent ratio whose antecedent is 1, by which all the divisions are saved: thus,

as 12781 &c: 5551 &c:: 1000 &c: 434294481903251804, that is, the logarithm of 1.00000,00000,00000,1 is 0.00000,00000,00000,04342,54481,90325,1804;

and therefore this last number being multiplied by any such small decimal, found as above by continual extraction, the product will be the corresponding logarithm of such last root.

But as the extraction of so many roots is a very troublesome operation, our author devises some ingenious contrivances to abridge that labour. And first, in the 7th chapter, by the following device, to have fewer and easier extractions to perform: namely, raising the powers from any given prime number, whose logarithm is sought, till a power of it be found such that its first figure on the left hand is 1, and the next to it either one or more ciphers; then, having divided this power by 1 with as many ciphers as it has figures after the first, or supposing all after the first to be decimals, the continual roots from this power are extracted till the decimal become sufficiently small, as when the first fifteen places are ciphers; and then by multiplying the decimal by 43429 &c, he has the logarithm of this last toot; which logarithm multiplied by the like power of the number 2,

gives the logarithm of the first number from which the extraction was begun: to this logarithm prefixing a 1, or 2, or 3, &c, according as this number was found by dividing the power of the given prime number by 10, or 100, or 1000, &c; and lastly, dividing the result by the index of that power, the quotient will be the required logarithm of the given prime number. Thus, to find the

logarithm of the given prime number. Thus, to find the logarithm of 2: it is first raised to the 10th power, as in the margin, before the first figures come to be 10; then, dividing by 1000, or cutting off for decimals all the figures after the first or 1, the root is continually extracted out of the quotient 1,024, till the 47th extraction, which gives 1,00000,00000,00000,16851,60570,53949,77; the decimal part of which multiplied by 4S429&c, gives 0,00000,00000,00000,07318,55936,90623,9368 for its logarithm; and this being continually doubled for 47 times, gives the logarithms of all the roots up to the first

number: or being at once multiplied by the 47th power of 2, viz. 140737488355928, which is raised as in the margin, it gives 0,01029,99566,99811,95265,27744 for the logarithm of the number 1,024, true to 17 or 18 decimals: to this prefix 3, so shall 3,0102 8tc be the logarithm of 1024: and lastly, because 2 is the tenth root of 1024, divide by 10, so shall 0,30102,99956,63981,1952 be the

logarithm required to the given number 2.

The logarithms of 1, 2, and 10 being now known; it is remarked that the logarithm of 5 becomes known; for since 10+2 is = 5, the refore log. 10 - log. 2 = log. 5,

2	
4	2
8	3
16	4
\$2	5
64	В
128	7
256	8
512	9
1021	10
1018576	20
1075741824	50
1099511627776	40
40757488355328	47

8

128 7

10 4

32 | 5

64 0

256 8

512

1024

which is 0,69897,00043,36018,9058; and that from the multiplications and divisions of these three, 2, 5, 10, with the corresponding additions and subtractions of their logarithms, a multitude of other numbers and their logarithms are produced; so, from the powers of 2 are obtained 4, 8, 16, 32, 64, &c; from the powers of 5 are obtained 4, 8, 16, 32, 64, &c; from the powers of 5, these, 25, 125, 625, 3125, &c; also the powers of 5 by those of 10 give 250, 1250, 6250, &c; and the powers of 2 by those of 10, give 20, 200, 2000, &c; 40, 400, 80, 800, &c; likewise by division are obtained 21, 11, 121, 61, 12, 31, 62.

Briggs then observes, that the logarithm of 3, the next prime number, will be best durined from that of 6, in this manners, 6 reject to

Briggs then observes, that the logarithm of S, the next prime number, will be best derived from that of 6, in this manner: 6 raised to the 9th power becomes 10077696, which divided by 10000000, gives 1,0077696, and the root from this continually extracted till the 46th, is 1,00000,00000,00000,10998,59345,88155,71866;

the decimal part of which multiplied by 43429&c, gives 0,00000,00000,00000,04776,62844,78608,0304 for its logarithm; and this 46 times doubled, or multiplied by the 46th power of 2, gives 0,00336,12534,52792,09 for the logarithm of 1,0077696: to which adding 7, the logarithm of the divisor 10000000, and dividing by 9, the index of the power of 6, there results 0,77815,12503,83643,63

for the logarithm of 6; from which subtracting the logarithm of 2, there remains 0,47712,12547,19662,44 for the logarithm of 3.

In the 8th chapter our ingenious author describes an original and easy method of constructing, by means of differences, the continual mean proportionals which were before found by the extraction of roots. And this, with the other methods of generating logarithms by differences, in this book as well as in his Trigonometria Britannica, are I believe the first instances that are to be found of making such use of differences, and show that he was the inventor of what may be called the Differential Method. He seems to have discovered this method in the following manner: having observed that these continual means between 1 and any number proposed, found by the continual extraction of roots, approach always nearer and nearer to the halves of each preceding root, as is visible when they are placed together under each other; and indeed it is found that as many of the significant figures of each decimal part, as there are ciphers between them and the integer 1, agree with the half of those above them; I say, having observed this evident approximation, he subtracted each of these decimal parts, which he called A or the first differences, from half the next preceding one, and by comparing together the remainders or second differences, called B, he found that the succeeding were always nearly equal to 4 of the next preceding ones; then taking the difference between each second difference and 1 of the preceding one, he found that these third differences, called C, were nearly in the continual ratio of 8 to 1; again taking the difference between each C and i of the next preceding, he found that these fourth differences, called D, were nearly in the continual ratio of 16 to 1; and so on, the 5th (E), 6th (F), &c, differences, being nearly in the continual ratio of 32 to 1, of 64 to 1, &c.

These plain observations being made, they very naturally and clearly suggested to him the notion and method of constructing all the remaining numbers from the differences of a few of the first, found by extracting the roots in the usual way. This will eviannexed specimen of a few of the first numbers in the last example for finding the logarithm of 6; where, after the 9th number the rest are supposed to be constructed from the preceding differences of each, as here shown in the 10th and 11th. And it is evident, that in proceeding, the trouble will become always less and less, the differences gradually va-nishing, till at last only the first differences remain; and that generally each less difference is the next shorter than greater, by as many places as there are ciphers at the beginning of the decimal in the number to be generated from the differences.

He then concludes this chapter with an ingenious, but not obvious, method of finding the differences B,C,D,E, &c. belonging to any number, as suppose the 9th, from that number itself, independent of any of the preceding 8th, 7th,

6th, 5th, &c, and it is this: raise the decimal A to the 2d, 3d, 4th, 5th, &c powers; then will the 2d (B), 3d (C), 4th (D), &c differences, be as here below, viz.

	1 00000 000	_
	1,00776,96	_
П	1,00387,72933,36962,45663,84655,1	_
2	1,00193,67661,36916,61675,87€22,9	
3	1,00096,79146, 0099,01*28,89072,0	
12	1,00046,38402,68646,62985,49253,5	A
3	1,00024,18968,78824,68563,8 672,7	A
	24,19201,144 11,31 192 74626,7	i jA
	292,55595 62925,93754,0	B
6	1,00012,09051,25877,13459,45919,4	A.
	12,09654,39412,34251,99436,3	4A.i
	70,13015,20922,46516.9	'B
	73,13599,65737,23419,5	ĮB.
		°C
	854,44907,*6721,5	
7	1,00006,04672,35035,30968,01600,5	A.
	6,04690,63198,56729,71959,7	- AA
	10,18143,25761,70059,2	<b>'B</b>
	16,28251,80205,61629,2	4B
		³c̃
	110,14447,91270,0	
	110,55613,721.5,2	fc.
	1169,50845,2	T.D
8	1,00003,08311,00505,03775,96479,4	A
	0,02336,17527,65484,00800,2	- IA
_		B
	4,57021,99*04,04320,8	
	4,37035,9,440,42589,8	指
	30,91782,39269,0	Ģ
	13,81801,49909,7	+C
	73,10639,7	D.
	73,11302,8	TD.
	663,1	E
		_
9		A
	1,51165,80252,80587,98239.7	- A
	1,14250,77215,00190,9	
	Hitherto the 2,1+255,49927,01080,2	4B.
		[6]
_	smaller differences 1,72711,27889,3 are found by sub- 1,72716,54°80,6	
		10
_	construction the language from a second of	15
	imeting the larger from 4.55894.8	D
ı	the parts of the like pre- 4,56915,0	G <sup>‡</sup>
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	tracting the larger from 4,56894,9 the parts of the like pre- ting ones 20,7  Here the greater differences 28555,89 the small er from the parts 28555,89 the ment preceding 21588,71150,92 mmber. 28563,22715,04616,80 75592,02999,52836,47324,40	Y WE O TO THE POOL
	tracting the larger from 4,56894,9 the parts of the like pre- ding ones 20,7  Here the greater differences 28555,89 the smaller subtracting 28555,89 the smaller from the parts 28555,89 the next preceding 21588,71150,92 number. 28563,24303,75797,72 28563,22715,0416,80 75592,02993,52836,47524,40 1,00000,75588,04436,30121,42907,60	VY SEE CHOCKER SECO
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Thus in the 9th number of the foregoing example, omitting the ciphers at the beginning of the decimals, we have

```
A = 1,51164,65999,05672,95048,8
A^{3} = -2,28507,54430,06381,C726
A^{3} = -3,45422,65239,48546,2
A^{4} = -5,22156,97802,288
A^{5} = -7,89316,8905
A^{6} = -7,89316,8905
A^{6} = -11,93168,1
```

### Consequently,

$$\frac{1}{4}A^2 = 1,14253,77215,03190,8363 = B$$
 $\frac{1}{4}A^4 - 1,72711,32619,74273$ 
 $\frac{1}{4}A^4 - 65269,63225$ 
 $\frac{1}{4}A^3 + \frac{1}{4}A^4 = 1,72711,97889,36498 = C$ 
 $\frac{1}{4}A^4 = 4,56887,35577$ 
 $\frac{1}{4}A^5 = -6,90652$ 
 $\frac{1}{78}A^6 = --5$ 
 $\frac{1}{4}A^4 + \frac{1}{4}A^5 + \frac{7}{73}A^6 = -5$ 
 $\frac{1}{2}A^5 = -20,71957$ 
 $\frac{1}{7}A^6 = -83$ 
 $\frac{1}{2}A^5 + \frac{7}{7}A^6 = -83$ 

which agree with the like differences in the foregoing specimen.

In the 9th chapter, after observing that from the logarithms of 1, 2, 3, 5, and 10, before found, are to be determined, by addition and subtraction, the logarithms of all other numbers which can be produced from these by multiplication and division; for finding the logarithms of other prime numbers, instead of that in the seventh chapter, our author then shows another ingenious method of obtaining numbers beginning with 1 and ciphers, and such as to bear a certain relation to some prime number by means of which its logarithm may be found. The method is this: Find three products having the common difference 1, and such that two of them are produced from factors having given logarithms, and the third produced

from the prime number, whose logarithm is required, either multiplied by itself, or by some other number whose logarithm is given : then the greatest and least of these three products being multiplied together, and the mean by itself, there arise two other products also differing by 1. of which the greater, divided by the less, gives for a quotient 1, with a small decimal, having several ciphers at the beginning. Then the logarithm of this quotient being found as before, from thence will be deduced the required logarithm of the given prime number. Thus if it be proposed to find the logarithm of the prime number 7; here  $6 \times 8 = 48$ ,  $7 \times 7 = 49$ , and  $5 \times 10 = 50$ , will be the three products, of which the logarithms of 48 and 50, the 1st and 3d, will be given from those of their factors 6, 8, 5, 10: also  $48 \times 50 = 2400$ , and  $49 \times 49 = 2401$ , are the two new products and 2401 ÷ 2400 ± 1,00041} their quotient: then the least of 44 means between 1 and this quotient is

1,00000,00000,00000,02367,98249,04333,6405, which multiplied by 43129 &c, produces 0,00000,00000,000000,01028,40172,88387,29715 for its logarithm; which being 44 times doubled, or multiplied by 17592180044416, produces 0,00018,00183,45421,30 for the logarithm of the quotient 1,000413; which being added to the logarithm of the divisor 2400, gives the logarithm of the dividend 2401; then the half of this logarithm is the logarithm of 49 the root of 2401, and the half of this again gives 0.84509,80400,14256, 82 for the logarithm of 7, which is the root of 49.—The author adds another example to illustrate this method; and then sets down the requisite factors, products, and quotients for finding the logarithms of all other

prime numbers up to 100.

The 10th chapter is employed in teaching how to find the logarithms of fractions, namely by subtracting the logarithm of the denominator from that of the numerator, then the logarithm of the fraction is the remainder: which therefore is either abundant or defective, that is positive or negative, as the fraction is greater or less than 1.

In the 11th chapter is shown an ingenious contrivance for very accurately finding intermediate numbers to given logarithms, by the proportional parts. On this occasion, it is remarked, that while the absolute numbers increase uniformly, the logarithms increase unequally, with a decreasing increment; for which reason it happens, that either logarithms or numbers corrected by means of the proportional parts, will not be quite accurate, the logarithms so found being always too small, and the absolute numbers so found too great; but yet so however as that they approach much nearer to accuracy towards the end of the table, where the increments or differences become much nearer to equality, than in the former parts of the table. And from this property our author, ever fruitful in happy expedients to obviate natural difficulties, contrives a device to throw the proportional part, to be found from the numbers and logarithms, always near the end of the table in whatever part they may happen naturally to fall. And it is this: Rejecting the characteristic of any given logarithm, whose

number is proposed to be found, take the arithmetical complement of the decimal part, by subtracting it from 1,000 &c, the logarithm of 10; then find in the table the logarithm next less than this arithmetical complement, together with its absolute number; to this tawher logarithm add the logarithm that was given, and the sum will be a logarithm necessarily falling among those near the end of the tible: find then its absolute number, corrected by means of the propartional part, which will not be very inaccurate, as falling near the end of the table: this being divided by the absolute number, before for the logarithm next less than the arithmetical complement, the quotient will be the required number answering to the given logrithm; which will be much more correct than if it had been found from the proportional part of the difference where it naturally happened to fall: and the reason of this operation is evident from the nature of logarithms. But as this divisor, when taken as the number answering to the logarithm next less than the arithmetical complement, may happen to be a large prime number; it is further remarked, that instead of this number and its logarithm, we may use the next less composite number which has small factors, and its logrithm; because the division by those small factors, instead of by the number itself, will be performed by the short and easy way of division in one line. And for the more easy finding proper composite numbers and their factors, our author here subjoins an abacus or list of all such numbers, with their logarithms and component factors, from 1000 to 10000; from which the proper logarithms and factors tre immediately obtained by inspection. Thus, for example, to find the root of 10800, or the mean proportional between 1 and 10800: The logarithm of 10800 is 4,03342,37554,8695, the half of which is 2,01671,18777, 4347 the logarithm of the number sought, the arithmetical complement of which logarithm is 0,98328,81222.5653; now the nearest logarithm to this in the abacus is 0,98227,12330,8957, and its annexed number is 9600, the factors of which are 2, 6, 8; to this last logarithm adding the logarithm of the number sought, the sum is 0,99898,31107,8304, whose absolute number, corrected by the proportional part, is 99766,12651,6521, which being divided continually by 2, 6, 8, the factors of 96, the last quotient is 103,92304845471; which is pretty correct, the true number being 103,923048454133 = 4/10800.

We now arrive at the 12th and 13th chapters, in which our ingenious author first of all teaches the rules of the Differential Method, in constructing logarithms by interpolation from differences. This is the same method which has since been more largely treated of by later authors, and particularly by the ingenious Mr. Cotes, in his Canontechnia. How Mr. Briggs came by it does not well appear, as he only delivers the rules, without laying down the principles or investigation of them. He divides the method into two cases, namely when the second differences are equal or nearly equal; and when the differences run out to any length whatever. The former of these is treated in the 12th chapter; and he particularly adapts it to the in-

terpolating 9 equidistant means between two given terms, evidently for this reason, that then the powers of 10 become the principal multipliers or divisors, and so the operations performed mentally. The substance of his process is this: Having given two absolute numbers with their logarithms, to find the logarithms of 9 arithmetical means between the given numbers: Between the given logarithms take the 1st difference, as well as between each of them

1st difference, as well as between each of them and their next or equidistant greater and less logarithms: and likewise the second differences, or the two differences of these three first differences; then if these second differences be equal, multiply one of them severally by the numbers 45, 35, &c., as in the annexed tablet, dividing each product by 1000, that is cutting off three figures from each; lastly, to  $\frac{1}{100}$  of the 1st difference of the given logarithms add severally the first five quotients, and subtract the other five, so shall the ten results be the respective first difference

	45	A1 2
2	35	E 라
3	25	音
4 5	15	3 8
5	5	- H
6	5	0 .
7	15	g. Ç.
7 8	25	मुद्धा
9	35	3 81
10	45	3 4

shall the ten results be the respective first differences to be continually added to compose the required series of logarithms. Now this amounts to the same thing as what is at this day taught in the like case: It is known that if A be any term of an equidistant series of terms, and a, b, c, &c, the first of the 1st, 2d, 3d, &c, order of differences; then the term x, whose distance from A is expressed by x, will be

thus, z=A+xa+x.  $\frac{x-1}{2}b+x$ .  $\frac{x-1}{2}$ .  $\frac{x-2}{3}c+\delta$ .c. And if now, with our author, we make the 2d differences equal, then c, d, e, &c, will all vanish, or be equal to 0, and z will become barely

 $= A + xa + x \cdot \frac{x+1}{2}b.$ 

Therefore if we take x successively equal to formation to, to, &c, we shall have the annexed series of terms with their differences. Where it is to be observed, that our author had reduced the differences from the 1st to the 2d form, as he thought it easier to multiply by 5

Series of terms.	The differences.
A	
1++50++800	100+150b=150+152b
1+30+30b	マカルナーラックニーラのナーカカック
1+100+1100	
	Tou+ 1666= 100+ 16686
A++60+360	700+3000=100+10000
A+754+7556	754+ 2556= 754+ 25556
A++30++366	The - 200 b = 100 - 1500 b
A+100+300b	To a - 100 b= 10a - 750 b
A++00+760b	Toa- 150 b= 150 - 1550 b
A++80+=800	750-7500=150-7650
A+a	100 - 100 b= 100 - 100 b

than to divide by 2. Also all the last terms  $(x, \frac{x-1}{2}b)$  are set down positive, because in the logarithms b is negative.—If the two 2d differences be only nearly equal, take an arithmetical mean between them, and proceed with it the same as above with one of the equal 2d differences.—He also shows how to find any one single term, independent of the rest; and concludes the chapter with pointing out a method of finding the proportional part more accurately than before.

In the 13th chapter our author remarks, that the best way of filling up the intermediate chiliads of his table, namely, from 20000 to 90000, by quinquisection, or interposing four equidistant means between two given terms; the method of performing which he thus particubrly describes. Of the given terms, or logarithms, and two or three others on each side of them, take the 1st, 2d, 3d, &c, differences, the last differences come out equal, which suppose to be the 5th deferences: divide the first differences by 5, the 2d by 25, the 3d by 125, the 4th by 625, and the 5th by 3125, and call the respective quotients the 1st, 2d, 3d, 4th, 5th mean differences; or, instead of dividing by these powers of 5, multiply by their reciprocals  $\frac{2}{100}$ ,  $\frac{4}{100}$ , 1000, 10000; that is, multiply by 2, 4, 8, 16, 32, cutting off respectively one, two, three, four, five figures from the end of the products, for the several mean differences: then the 4th and 5th of these mean differences are sufficiently accurate; but the 1st, 2d, and 3d are to be corrected in this manner; from the mean third differences subtract three times the 5th difference, and the remainders are the correct 3d differences; from the mean 2d differences subtract double the 4th differences, and the remainders are the correct 2d differences; both, from the mean 1st differences take the correct 3d differences, and 4 of the 5th difference, and the remainders will be the correct first differences. Such are the corrections when the differences extend However, in completing those chiliads in this **s far a**s the 5th. way, there will be only 3 orders of differences, as neither the 4th nor 5th will enter the calculation, but will vanish through their smallness: therefore the mean 2d and 3d differences will need no correction, and the mean first differences will be corrected by barely subtracting the 3d from them. These preparatory numbers being thus found, all the 2d differences of the logarithms required, will be generated by adding continually, from the less to the greater, the constant 3d difference; and the series of 1st differences will be found by adding the several 2d differences; and lastly, by adding continually these 1st differences to the 1st given logarithm &c, the required logarithmic terms are generated.

These easy rules being laid down, Mr. Briggs next teaches how by them the remaining chiliads may best be completed: namely, having here the logarithm for all numbers up to 20000, find the logarithm to every 5 beyond this, or of 20005, 20010, 20015, &c, in this manner; to the logarithms of the 5th part of each of these, namely 4001, 4002, 4003, &c, add the constant logarithm of 5, and the sums will be the logarithms of all the terms of the series 20005, 20010, 20015, &c: and these logarithms will have the very same differences as those of the series 4001, 4002, 4003, &c; by means of which therefore interpose 4 equidistant terms by the rules above; and thus the whole canon will be easily completed.

Briggs here extends the rules for correcting the mean differences in quinquisection, as far as the 20th difference; he also lays down similar rules for trisection, and speaks of general rules for any other section, but omitted as being less easy. So that he appears to have been pos-

sessed of all that Cotes afterwards delivered in his Canonotechnia sive Constructio Tabularum per Differentias, drawn from the Differential Method, as their general rules exactly agree, Briggs's mean and correct differences being by Cotes called round and quadrat differences, because he expresses them by the numbers 1, 2, 3, &c, written re-

spectively within a small circle and square.

. Briggs also observes, that the same rules equally apply to the construction of equidistant terms of any other kind, such as sines, tangents, secants, the powers of numbers, &c: and further remarks, that of the sines of three equidistant arcs, all the remote differences may be found by the rule of proportion, because the sines and their 2d, 4th, 6th, 8th, &c differences, are continued proportionals, as are also the 1st, 3d, 5th, 7th, &c differences, among themselves; and, like as the 2d, 4th, 6th, &c differences are proportional to the sines of the mean arcs, so also are the 1st, 3d, 5th, &c differences proportional to the cosines of the same arcs. Moreover, with regard to the powers of numbers, he remarks the following curious properties; 1st, that they will each have as many orders of differences as are denoted by the index of the power, the squares having two orders of differences, the cubes three, the 4th powers four, &c; 2d, that the last differences will be all equal, and each equal to the common difference of the sides or roots raised to the given power and multiplied by  $1 \times 2 \times 3 \times 4$ , &c, continued to as many terms as there are units in the index: so if the roots differ by 1, the second differences of the squares will be each 1 x 2 or 2, the 3d differences of the cubes each 1 x 2 x 3 or 6, the 4th differences of the 4th powers each  $1 \times 2 \times 3 \times 4$  or 24, and so on; and if the common difference of the roots be any other number n, then the last differences of the squares, cubes, 4th powers, 5th powers, &c. will be respectively  $2n^2$ ,  $6n^3$ ,  $24n^4$ ,  $120n^5$ , &c.

Besides what was shown in the 11th chapter, concerning the taking out the logarithms of large numbers by means of proportional parts, Briggs employs the next or 14th chapter in teaching how, from the first ten chiliads only, and a small table of one page, here given, to find the number answering to any logarithm, and the logarithm to

any number, consisting of fourteen places of figures \*.

Having thus fully shown the construction and chief properties of his logarithms, our ingenious author, in the remaining eighteen chapters, exemplifies their uses in many curious and important subjects; such as the Rule-of-Three, or rule of proportion; finding the roots of given numbers; finding any number of mean proportionals between two given terms; with other arithmetical rules; also various geometrical subjects, as 1st, Having given the sides of any plane-triangle, to find the area, perpendicular, angles, and diameters of the inscribed and circumscribed circles; 2d, In a right-angled triangle, having given any two of these, to find the rest, viz. one leg

It is no more than a large exemplification of this method of Briggs's that has been printed so late as 1771, in a 4to tract by Mr. Robert Flower, under the title of The Radix, A New Way of making Legarithms. Though Briggs's work might not be known to this writer.

and the hypotenuse, one leg and the sum or difference of the hypotenuse and the other leg, the two legs, one leg and the area, the area and the sum or difference of the legs, the hypotenuse and sum or difference of the legs, the hypotenuse and area, and the perimeter and area; 3d, Upon a given base to describe a triangle equal and isoperimetrical to another triangle given; 4th, To describe the circumserence of a circle so, that the three distances from any point in it to the three angles of a given plane triangle, shall be to one another in a given ratio; 5th, Having given the base, the area, and the ntio of the two sides, of a plane triangle, to find the sides; 6th, Given the base, difference of the sides, and area of a triangle, to find the sides; 7th, To find a triangle whose area and perimeter shall be expressed by the same number; 8th, Of four given lines, of which the sum of any three is greater than the fourth, to form a quadrilateral figure about which a circle may be described; 9th, Of the diameter, circumference, and area of a circle, and the surface and solidity of the sphere generated by it, having any one given, to find any of the rest; 10th, Concerning the ellipse, spheroid, and gauging; 11th, To cut a line or a number in extreme and mean ratio; 12th, Given the diameter of a circle, to find the sides and areas of the inscribed and circumscribed regular figures of 3, 4, 5, 6, 8, 10, 12, and 16 sides; 13th, Concerning the regular figures of 7, 9, 15, 24, and 30 sides; 14th, Of isoperimetrical regular figures; 15th, Of equal regular figures; and 16th, Of the sphere and the five regular bodies; which closes this introduction. Such of these problems as can admit of it, are determined by elegant geometrical constructions, and they are all illustrated by accurate arithmetical calculations, performed by logarithms; for the exemplification of which they are purposely given. At the end he remarks, that the chief and most necessary use of logarithms, is in the doctrine of spherical trigonometry, which he here promises to give in a future work, and which was accomplished in his Trigonometria Britannica, to the description of which we now proceed.

# Of BRIGGS'S Trigonometria Britannica.

At the close of the account of writings on the natural sines, tangents, and secants, we omitted the description of this work of our learned author, though it is perhaps the greatest of this kind, all things considered, that ever was executed by one person; purposely reserving my account of it to this place, not only as it is connected with the invention and construction of logarithms, but thinking it deserved more peculiar and distinguished notice, on account of the importance and originality of its contents. The division of the quadrant, and the mode of construction, are both new; and the numbers are far more accurate, and are extended to more places, than they had ever been before. The circular arcs had always been divided in a sexagesimal proportion; but here the quadrant is divided into degrees

and decimals, as this is a much easier mode of computation than by 60ths; the division being completed only to 100ths of degrees, though his design was to have extended it to 1000ths of degrees. And, besides his own private opinion, he was induced to adopt this method of decimal divisions, partly at the request of other persons, and partly perhaps from the authority of Vieta, pa. 29 Calendarii Gregoriani. And it is probable that computations by this decimal division would have come into general use, had it not been for the publication of Vlacq's tables, which were extended to every 10 seconds, or 6th parts of minutes. But besides this method by a decimal division of the degrees, of which the whole circle contains 360, or the quadrant 90, in the 14th chapter he remarks, that some other persons were inclined. rather to adopt a complete decimal division of the whole circle, first into 100 parts, and each of these into 1000 parts; and for their sakes he subjoins a small table of the sines of every 40th part of the quadrant, and remarks, that from these few the whole may be made out by continual quinquiscctions; namely, 5 times these 40 make 200, then 5 times these give 1000, thirdly, 5 times these give 5000, and lastly, 5 times these give 25000 for the whole quadrant, or 100000 for the whole circumference.

But to return. Our author's large table consists of natural sines to 15 places, natural tangents and secants each to 10 places, logarithmic sines to 14 places, and logarithmic tangents to 10 places, each besides the characteristic. A most stupendous performance! The table is preceded by an introduction, divided into two books, the one contain ing an account of the truly ingenious construction of the table, by the author himself; and the other, its uses in trigonometry, &c, by Henry Gellibrand, professor of astronomy in Gresham College, who remarks in the preface, that the work was composed by the author about the year 1600; though it was only published by the direction of Gellibrand in 1633, it having been printed at Gouda under the care of Vlacq, and by the printer of his Trigonometria Artificialis, which came out the same year.

After briefly mentioning the common methods of dividing the quadrant, and constructing the tables of sines, &c, from the ancients down to his own time, he hastens to the description of his own peculiar and truly ingenious method, which is briefly this: having first divided the quadrant into a small number of parts, as 72, he finds the sinc of one of those parts, then from it the sines of the double, triple, quadruple, &c, up to the quadrant or 72 parts. He next quinquisects each of these parts; by interposing four equidistant means, by differences; he then quinquisects each of these; and finally, each of these again; which completes the division as far as degrees and centesms. The rules for performing all these things he investigates and illustrates in a very ample manner. In treating of multiple and submultiple arcs, he gives general algebraical expressions for the sine or chord of any multiple whatever of a given arc, which he deduced from a geometrical figure, by finding the law for the series of successive multiple chords or sines, after the manner of Vieta, who was the

first person that I know of, who laid down general rules for the chords of multiples and submultiples of arcs and angles: and the same was afterwards improved by Sir I. Newton, to such form, that radius, and double the cosine of the first given angle, are the first and second terms of all the proportions for finding the sines and cosines of the multiple angles. For assigning the coefficients of the terms in the meltiple expressions, our author here delivers the construction of figurate or polygonal numbers, inserts a large table of them, and teaches their several uses; one of which is, that every other number, taken in the diagonal lines, furnishes the coefficients of the terms of the general equation by which the sines and chords of multiple arcs we expressed, which he amply illustrates; and another, that the same diagonal numbers constitute the coefficients of the terms of any power of a binomial; which property was also mentioned by Vieta in his Angulares Sectiones, theor. 6, 7; and before him, pretty fully treated of by Stifelius, in his Arithmetica Integra, fol. 44 & seq.; where he inserts and makes the like use of such a table of figurate numbers, in extracting the roots of all powers whatever. perhaps known much earlier, as appears by the treatise on figurate members by Nichomachus, (see Malcolm's History, p. xviii). indeed Cardan seems to ascribe this discovery to Stifelius. Opus Novum de Proportionibus Numerorum, where he quotes it, and extracts the table and its use from Stifel's book. Cardan, in p. 195, &c, of the same work, makes use of a like table to find the number of variations, or conjugations as he calls them. Stevinus too makes we of the same coefficients and method of roots as Stifelius. his Arith. page 25. And even Lucas de Burgo extracts the cube rost by the same coefficients, about the year 1470. But he does not go to any higher roots. And this is the first mention I have seen made of this law of the coefficients of the powers of a binomial, commonly called Sir I. Newton's binomial theorem, though it is very evident that Sir Isaac was not the first inventor of it: the part of it properly belonging to him seems to be only the extending it to fractional indices, which was indeed an immediate effect of the general method of denoting all roots like powers with fractional exponents, the theorem being not at all altered. However, it appears that our author Briggs was the first who taught the rule for generating the coefficients of the terms successively one from another, of any power of a binomial, independent of those of any other power. For having shown, in his Abacus Παγχοης 05 (which he so calls on account of its frequent and excellent use, and of which a small specimen is here annexed), that the numbers

ΑΒΑCUS ΠΑΓΧΡΗΣΤΟΣ.							
H	G	F	E	D	C	В	A
-8	$- \mathcal{O}$	+@	+ ③	<b>-6</b>	-3	+2	1
1	1	1	1	1	1	1	Ĭ
9	8	7	6	5	4	3	2
į	36	28	21	15	10	6	3
1	·	84	<b>56</b>	35	20	10	4
	•		126	70	<b>35</b>	15	5
		•		126	56	21	6
			•		8 <b>4</b>	28	7
				•		36	8
						-	9

in the diagonal directions, ascending from right to left, are the coefficients of the powers of binomials, the indices being the figures in the first perpendicular column A, which are also the coefficients of the 2d terms of each power (those of the first terms, being 1, are here omitted); and that any one of these diagonal numbers is in proportion to the next higher in the diagonal, as the vertical of the former is to the marginal of the latter, that is, as the uppermost number in the column of the former is to the first or right-hand number in the line of the latter; having shown these things, he thereby teaches the generation of the coefficients of any power, independently of all other powers, by the very same law or rule which we now use in the binomial theorem. Thus, for the 9th power; 9 being the coefficient of the 2d term, and I always that of the 1st, to find the 3d coefficient we have 2:8::9:36; for the 4th term, 3:7::36:84; for the 5th term, 4:6::84:126; and so on for the rest. That is to say, the coefficients of the terms in any power m, are inversely as the vertical numbers or first line 1, 2, 3, 4,...m, and directly as the ascending numbers  $m, m-1, m-2, m-3, \ldots$ , in the first column A; and that consequently those coefficients are found by the continual multiplication  $m-1 \ m-2 \ m-3$ 

of these fractions  $\frac{m}{1}$ ,  $\frac{m-1}{2}$ ,  $\frac{m-2}{3}$ ,  $\frac{m-3}{4}$ , ....  $\frac{1}{m}$ , which is the very

theorem as it stands at this day, and as applied by Newton to roots or fractional exponents, as it had before been used for integral powers. This theorem then being thus plainly taught by Briggs about the year 1600, it is surprising how a man of such general reading as Dr. Wallis was, could be quite ignorant of it, as he plainly appears to be by the 35th chapter of his algebra, where he fully ascribes the invention to Newton, and adds, that he himself had formerly sought for such a rule, but without success: Or how Mr. John Bernouilli, not half a century since, could himself first dispute the invention of this theorem with Newton, and then give the discovery of it to Pascal,

who was not born till long after it had been taught by Briggs. See Bernouilli's Works, vol. 4. pa. 173. But I do not wonder that Briggs's remark was unknown to Newton, who owed almost every thing to genius and deep meditation, but very little to reading: and I have no doubt that he made the discovery himself, without any light from Briggs, and that he thought it was new for all powers in general, as it was indeed for roots and quantities with fractional and irrational emonents.

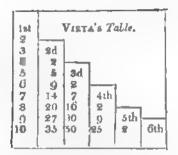
When the above table of the sums of figurate numbers is used by our author in determining the coefficients of the terms of the equation, whose root is the chord of any submultiple of an arc, as when the section is expressed by any uneven number, he remarks, that the powers of that chord or root will be the 1st, 3d, 5th, 7th, &c, in the alternate uneven columns, A, C, E, G, &c, with their signs + or—as marked to the powers, continued till the highest power be equal to the index of the section; and that the coefficients of those powers are the sums of two continuous numbers in the same column with the powers, beginning with 1 at the highest power, and gradually descending one line obliquely to the right at each lower power: so, for a trisection, the numbers are 1 in C, and 1+2 =3 in A; and therefore the terms are -1(3)+3(1): for a quinquiacction, the numbers are 1 in E, 1+4=5 in C, 2+3=5 in A; so that the terms are 1(5)-5(3)+5(1): for a septisection, the numbers are 1 in G, 1+6=7 in E, 4+10=14 in C, and 3+4=7 in A: and so the terms are -1/7+7/5-14/3+7(1): and so on, the sum of all these terms being always equal to the chord of the whole or multiple arc. But when the section is denominated by an even number, the squares of the chords enter the equation, instead of the first powers as before, and the dimensions of all the powers are doubled, the coefficients being found as before, and therefore the powers and numbers will be those in the 2d, 4th, 6th, &c, columns: and the uneven sections may also be expressed the same way: hence, for a bisection the terms will be -1 + 4 for a trisection 160-64+92: for the quadrisection -18+860-204+162: for the quinquisection 1  $\bigcirc -10 \bigcirc +35 \bigcirc -50 \bigcirc +25 \bigcirc :$  and so on.

Our author subjoins another table, a small specimen of which is here annexed, in which the first column consists of the uneven numbers 1, 3, 5, &c, the rest being found by addition as before, and the alter-

	F + (6)	E + (5)	- (c)	C -3	+ ②	A (l)
		7	6	5	4	3
	<b>.</b>  -		* 20	14	. 9	5
1				30	16	7
					25	9
1					·	11

pate diagonal numbers themselves are the coefficients.

The method is quite different from that of Vieta, who gives another table for the like purpose, a small part of which is here annexed, which is formed by adding, from the number 2, downwards obliquely towards the right; and the coefficients of the terms stand on the horizontal line.



These angular sections were afterwards further discussed by Oughtred and Wallis. And the same theorems of Vieta and Briggs have been since given in a different form by Herman and the Bernouillis, in the Leipsic Acts, and the Memoirs of the Royal Academy of Sciences. These theorems they expressed by the alternate terms of the power of a binomial, whose exponent is that of the multiple angle or section. And De Lagny in the same Memoirs, first showed, that the tangents and secants of multiple angles are also expressed by the terms of a binomial, in the form of a fraction, of which some of those terms form the numerator, and others the denominator. Thus, if r express the radius, s the sine, c the cosine, t the tangent, and s the secant, of the angle A; then the sine, cosine, tangent, and secant of n times the angle, are expressed thus, viz.

Sin. 
$$n = \frac{1}{\sqrt{n-1}} \times \frac{n}{1} = \frac{n - 1}{s} = \frac{n - 1}{1 \cdot 2 \cdot 3} = \frac{n - 1}{s} = \frac{n - 1}{1 \cdot 2 \cdot 3} = \frac{n - 1}{1 \cdot 2 \cdot 3} = \frac{n - 1}{1 \cdot 2 \cdot 3 \cdot 4 \cdot 5} = \frac{n - 1}{1 \cdot 2 \cdot 3 \cdot 4} = \frac{n - 1}{1 \cdot 2 \cdot 3 \cdot 4} = \frac{n - 1}{1 \cdot 2 \cdot 3 \cdot 4} = \frac{n - 1}$$

Tang. 
$$n = 1$$
  $t = \frac{n \cdot n - 1}{1 \cdot 2 \cdot 3} \cdot \frac{n \cdot n - 1}{1 \cdot 2 \cdot 3} \cdot \frac{n \cdot n - 1}{1 \cdot 2 \cdot 3 \cdot 4 \cdot 5} \cdot \frac{n \cdot n - 1}{r} \cdot \frac{n \cdot n - 1}{r$ 

where it is evident, that the agries in the sine of n A, consists of the even terms of the power of the binomial  $(c s)^n$ , and the series in the cosine of the uneven terms of the same power; also the series in the numerator of the tangent, consists of the even terms of the power  $(r+t)^n$ , and the denominator, both of the tangent and secant, consists of the uneven terms of the same power  $(r+t)^n$ . And if the diameter, chord, and chord of the supplement, be substituted for the radius, sine, and cosine, in the expressions for the multiple sine and cosine,

the result will give the chord and chord of the supplement of n times the arc or angle A. These, and various other expressions, for multiple and submultiple arcs, with other improvements in trigonometry, have also been given by Euler, and other eminent writers on the same

subject.

The before mentioned De Lagny offered a project for substituting, instead of the common logarithms, a binary arithmetic, which he called the natural logarithms, and which he and Leibnitz seem to have both invented about the same time, independently of each other; but the project came to nothing. De Lagny also published, in several Memoirs of the Royal Academy, a new method of determining the angles of figures, which he called Goniometry. It consists in measuring, with a pair of compasses, the arc which subtends the angle in question: yet this arc is not measured by applying its extent to any preconstructed scale, but by examining what part it is of half the circumference of the same circle, in this manner: from the proposed angular point as a centre, with a sufficiently large radius, a semicircle being described, a part of which is the arc intercepted by the sides of the proposed angle, the extent of this arc is taken with a pair of fine compasses, and applied continually upon the arc of the semicircle, by which he finds how often it is contained in the semicircle, with usually a small arc remaining; in the same manner he measures how often this remaining arc is contained in the first arc, and what remains again is applied continually to the first remainder, and so the 3d remainder to the 2d, the 4th to the 3d, and so on till there be no remainder, or else till it become insensibly small. By this process he obtains a series of quotients, or fractional parts, one of another, which being properly reduced into one, give the ratio of the first arc to the semi-circumference, or of the proposed angle, to two right angles or 180 degrees, and consequently that angle in degrees, minutes, &c, if required, and that commonly, he says, to a degree of accuracy far exceeding the calculation of the same by means of any tables of sines, tangents, or secants, notwithstanding the apparent paradox in this expression at first sight. Thus, if the first arc be 4 times contained in the semicircle, the remainder once contained in the first arc, the next 5 times in the second, and finally the fourth 2 times in the third: Here the quotients are 4, 1, 5, 2; consequently the fourth or last arc was  $\frac{1}{2}$  the 3d; therefore the 3d was  $\frac{1}{5\frac{1}{4}}$  or  $\frac{2}{11}$  of

the 2d, and the 2d was  $\frac{1}{1\frac{2}{11}}$  or  $\frac{1}{13}$  of the 1st, and the first or arc sought,

was  $\frac{1}{4\frac{11}{12}}$  or  $\frac{13}{4}$  of the semicircle; consequently it contains  $37\frac{1}{7}$  degrees, or  $37^{\circ}$  8' 34''2. Hence it is evident that this method is in fact nothing more than an example of continued fractions, the first instance of which was given by lord Brouncker.

But to return from this long digression; Mr. Briggs next treats of

interpolation by differences, and chiefly of quinquisection, after the manner used in the 13th chapter of his construction of logarithms, before described. He here proves that curious property of the sines and their several orders of differences, before mentioned, namely, that of equidifferent arcs, the sines, with the 2d, 4th, 6th, &c differences, are continued proportionals; as also the cosines of the means between those arcs, and the 1st, 3d, 5th, &c differences. And to this treatise, on interpolation by differences, he adds a marginal note, complaining that this 13th chapter of his Arithmetica Logarithmica had been omitted by Vlacq in his edition of it; as it he were afraid of an intention to deprive him of the honour of the invention of interpolation by successive differences. The note is this: Modus correctionis à me traditus est Arithmetica Logarithmica capite 13, in editione Londinensi: Istud autem caput unà cum sequenti in editione Batura me inconsulto et inscio omusum fint: nec in omnibus, editionis illius author (vir alioqui industrius et non indoctus), mean mentem videtur assequatus: Ideoque, ne quicquam desit cuiquam, qui integrum canonem conficere cupiat, quadam maxime necessaria illine hue transferenda censni.

A large specimen of quinquisection by differences is then given, and he shows how it is to be applied to the construction of the whole canon of sines, both for 100th and 1000th parts of degrees; namely, for centesms, divide the quadrant first into 72 equal parts, and find their sines by the primary methods; then these quinquisected give 360 parts, a second quinquisection gives 1800 parts, and a third gives 9000 parts, or centesms of degrees; but for millesms, divide the quadrant into 144 equal parts; then one quinquisection gives 720, a second gives 3600, a third 18000, and a fourth gives 90000 parts, or

millesma.

He next proceeds to the natural tangents and secants, which he directs to be raised in the same manner, by interpolations from a few primary ones, constructed from the known proportions between sines, tangents, and secants; excepting that half the tangents and secants are to be formed by addition and subtraction only, by means of some auch theorems as these, namely, 1st, the secant of an arc is equal to the sum of the tangent of the same arc, and the tangent of half its complement, which will find every other secant; 2d, double the tangent of an arc, added to the tangent of half its complement, is equal to the tangent of the sum of that are and the said half complement, by which rule half the tangents will be found; &c.

In the two remaining chapters of this book are treated the construction of the logarithmic sines, tangents, and secants. This is preceded by some remarks on the origin and invention of them. Our author here observes, that logarithms may be of various kinds; that others had followed the plan of Baron Napier the first inventor, among whom Benjamin Ursinus is especially commended, who applied Napier's logarithms to every ten seconds of the quadrant; but that he himself, encouraged by the noble inventor, devised other lo-

parithms that were much easier and more excellent\*. He says he put 10, with ciphers, for the logarithm of radius; 9 for the logarithm sine of 5° 44′, whose natural sine is one 10th of the radius; 8 for that of 34′, whose natural sine is one 100th of the radius, and so on; thereby making 1 the logarithm of the ratio of 10 to 1, which is the

characteristic of his species of logarithms.

To construct the logarithmic sines, he directs first to divide the quadrant into 72 equal parts as before, and to find the logarithms of heir natural sines as in the 14th chapter of his Arithmetica Logarithmice; after which, this number will be increased by quinquisection, first to 360, then to 1800, and lastly to 9000, or centesms of degrees. But if millesms of degrees be required, divide the quadrant first into 144 equal parts, and then by four quinquisections these will be extended to the following parts, 720, 3600, 18000, and 90000, or millesms of degrees. He remarks, however, that the logarithmic sines of only half the quadrant need be found in this manner, as the other half may be found by mere addition, or subtraction, by means of this theorem, as the sine of half an arc is to half radius, so is the sine of the whole arc to the cosine of the said half arc. This theorem he illustrates with examples, and then adds a table of the logarithmic sines of the primary 72 parts of the quadrant, from which the rest are to be made out by quinquisection.

In the next chapter our author shows the construction of the natural tangents and secants more fully than he had done before, demonstrating and illustrating several curious theorems for the easy finding of them. He then concludes this chapter, and the book, with pointing out the very easy construction of the legarithmic tangents and secants

by means of these three theorems:

1st, As cosine : sine :: radius : tangent, 2d, As tangent : radius :: radius : cotangent, 3d, As cosine : radius :: radius : secant.

So that in logarithms, the tangents are found by subtracting the cosines from the sines, adding always 10 or the radius; the cotangents are found by subtracting always the tangents from 20 or double the radius; and the secants are found by subtracting the cosines from 20 the double radius.

The 2d book, by Gellibrand, contains the use of the canon in plane and spherical trigonometry.

Besides Briggs's methods of constructing logarithms, above described, no others were given about that time. For as to the calculations made by Vlacq, his numbers being carried to comparatively but few places of figures, they were performed by the easiest of Briggs's methods, and in the manner which this ingenious man had pointed out in his two volumes. Thus, the 70 chiliads of logarithms,

<sup>\*</sup> His words are: "Ego vero ipsius inventoris primi cohortatione adjutus, alios logarithmos applicandos censui, qui multo faciliorem usum habent, præstantiorem. Logarithmus radii circularis vel sinus totius, a me ponitur 10 &c."

from 20000 to 90000, computed by Vlacq, and published in 1628, being extended only to 10 places, yield no more than two orders of mean differences, which are also the correct differences, in quinquisection, and therefore will be made out thus, namely, one-fifth of them by the mere addition of the constant logarithm of 5; and the other four-fifths of them by two easy additions of very small numbers, namely, of the 1st and 2d differences, according to the directions given in Briggs's Arith. Log. c. 13, p. 31. And as to Vlacq's logarithmic sines and tangents to every 10 seconds, they were easily computed thus; the sines for half the quadrant were found by taking the logarithms to the natural sines in Rheticus's canon; and then from these the logarithmic sines to the other half quadrant were found by mere addition and subtraction; and from these all the tangents by one single subtraction. So that all these operations might easily be performed by one person, as quickly as a printer could set up the types: and thus the computation and printing might both be carried on together. And hence it appears that there is no reason for admiration at the expedition with which these tables were said to have been brought out.

## Of certain Curves related to Logarithms.

About this time the mathematicians of Europe began to consider some curves which have properties analogous to logarithms. Edmund Gunter, it has been said, first gave the idea of a curve, whose abscisses are in arithmetical progression, while the corresponding ordinates are in geometrical progression, or whose abscisses are the logarithms of their ordinates; but I cannot find it noticed in any part of his writings. The same curve was afterwards considered by others, and named the Logarithmic or Logistic curve by Huygens, in his Dissertatio de Causa Gravitatis, where he enumerates all the principal properties of this curve, showing its analogy to logarithms. other learned men have also treated of its properties; particularly Le Seur and Jacquier, in their commentary on Newton's Principia; Dr. John Keill, in the elegant little tract on logarithms subjoined to his edition of Euclid's Elements; and Francis Maseres, Esq. Cursitor Baron of the Exchequer, in his ingenious treatise on Trigonometry; in which books the doctrine of logarithms is copiously and learnedly treated, and their analogy to the logarithmic curve &c fully displayed. —It is indeed rather extraordinary that this curve was not sooner announced to the public; since it results immediately from baron Napier's manner of conceiving the generation of logarithms, by only supposing the lines which represent the natural numbers to be placed at right angles to that on which the logarithms are taken. This curve greatly facilitates the conception of logarithms to the imagination, and affords an almost intuitive proof of the very important property of their fluxions, or very small increments, to wit, that the fluxion of the number is to the fluxion of the logarithm, as the number is to the subtangent; as also of this property, that, if three numbers be taken very nearly equal, so that their ratios to each other may differ but a little from a ratio of equality, as for example, the three numbers 10000000, 10000001, 10000002, their differences will be very nearly proportional to the logarithms of the ratios of those numbers to each other: all which follows from the logarithmic arcs being very little different from their chords, when they are taken very small. And the constant subtangent of this curve is what was afterwards by Cotes called the Modulus of the system of logarithms: and sice, by the former of the two properties abovementioned, this subtangent is a 4th proportional to the fluxion of the number, the fluxion of the logarithm, and the number itself; this property afforded occasion to Mr. Baron Maseres to give the following definition of the modulus, which is the same in effect as Cotes's, but more clearly expressed, namely, that it is the limit of the magnitude of a 4th proportional to these three quantities, to wit, the difference of any two natural numbers that are nearly equal to each other, either of the said numbers, and the logarithm or measure of the ratio they have to Or we may define the modulus to be the natural number at that part of the system of logarithms, where the fluxion of the number is equal to the fluxion of the logarithm, or where the numbers and logarithms have equal differences. And hence it follows, that the logarithms of equal numbers or equal ratios, in different systems, are to one another as the moduli of those systems. Moreover, the ratio whose measure or logarithm is equal to the modulus, and thence by Cotes called the ratio modularis, is by calculation found to be the ratio of 2.718281828459&c to 1, or of 1 to .367879441171&c; the calculation of which number may be seen at full length in Mr. Baron Maseres's Treatise on the Principles of Life-annuities, pa. 274 and 275.

The hyperbolic curve also afforded another source for developing and illustrating the properties and construction of logarithms. For the hyperbolic areas lying between the curve and one asymptote, when they are bounded by ordinates parallel to the other asymptote, are analogous to the logarithms of their abscisses or parts of the asymptote. And so also are the hyperbolic sectors; any sector bounded by an arc of the hyperbola and two radii, being equal to the quadrilateral space bounded by the same arc, the two ordinates to either asymptote from the extremities of the arc, and the part of the asymptote intercepted between them. And though Napier's logarithms are commonly said to be the same as hyperbolic logarithms, it is not to be understood that hyperbolas exhibit Napier's logarithms only, but indeed all other possible systems of logarithms whatever. -For, like as the right-angled hyperbola, the side of whose square inscribed at the vertex is 1, gives Napier's logarithms; so any other system of logarithms is expressed by the hyperbola whose asymptotes form a certain oblique angle, the side of the rhombus inscribed at the vertex of the hyperbola in this case also being still 1, the same as the side of the square in the right-angled hyperbola. But the areas of the

square and rhombus, and consequently the logarithms of any one and the same number or ratio, differing according to the sine of the angle of the asymptotes. And the area of the square or rhombus, or any inscribed parallelogram, is also the same thing as what was by Cotes called the modulus of the system of logarithms; which modulus will therefore be expressed by the numerical measure of the sine of the angle formed by the asymptotes, to the radius 1; as that is the same with the number expressing the area of the said square or rhombus, the side being 1: which is another definition of the modulus, to be added to those we before remarked above, in treating of the logarithmic curve. And the evident reason of this is, that in the beginning of the generation of these areas from the vertex of the hyperbola, the nascent increment of the abscisse drawn into the altitude 1, is to the increment of the area, as radius is to the sine of the angle of the ordinate and abscisse, or of the asymptotes; and at the beginning of the logarithms, the nascent increment of the natural numbers is to the increment of the logarithms, as 1 is to the modulus of the system. Hence we easily discover that the angle formed by the asymptotes of the hyperbola exhibiting Briggs's system of logarithms, will be 25 deg. 44 min. 251 sec. this being the angle whose sine is 0.4342944819 &c, the modulus of this system.

Or indeed any one hyperbola will express all possible systems of logarithms whatever, namely, if the square or rhombus inscribed at the vertex, or, which is the same thing, any parallelogram inscribed between the asymptotes and the curve at any other point, be expounded by the modulus of the system; or, which is the same, by expounding the area, intercepted between two ordinates which are to each other in the ratio of 10 to 1, by the logarithm of that ratio in the proposed

system.

As to the first remarks on the analogy between logarithms and the hyperbolic spaces; it having been shown by Gregory St. Vincent, in his Quadratura Circuli & Sectionum Coni, published at Antwerp in 1647, that if one asymptote be divided into parts in geometrical progression, and from the points of division ordinates be drawn parallel to the other asymptote, they will divide the space between the asymptote and curve into equal portions; hence it was shown by Mersenne, that by taking the continual sums of those parts, there would be obtained areas in arithmetical progression, adapted to abscisses in geometrical progression, and which therefore were analogous to a system of logarithms. And the same analogy was remarked and illustrated soon after by Huygens and many others, who show how to square the hyperbolic spaces by means of the logarithms.

1

### Of Gregory's \* Computation of Logarithms.

On the other hand, Mr. James Gregory, in his Vera Circuli et Hyperbolæ Quadratura, first printed at Patavi, or Padua, in the year 1667, having approximated to the hyperbolic asymptotic spaces, by means of a series of inscribed and circumscribed polygons, from thence shows how to compute the logarithms, which are analogous to those areas: and thus the quadrature of the hyperbolic spaces became the same thing as the computation of the logarithms. He here also lays down various methods to abridge the computation, with the assistance of some properties of numbers themselves, by which we are enabled to compose the logarithms of all prime numbers under 1000, each by one multiplication, two divisions, and the extraction of the square root. And the same subject is farther pursued in his Exercitationes Geometricæ, to be described hereafter.

There are also innumerable other geometrical figures having properties analogous to logarithms: such as the equiangular spiral, the figures of the tangents and secants, &c; which it is not to our purpose to distinguish more particularly.

### Of Mercator's † Logarithmotechnia.

In 1668, Nicholas Mercator published his Logarithmotechnia, sive methodus construendi Logarithmos nova, accurata, & facilis; in which he delivers a new and ingenious method for computing the logarithms on principles purely arithmetical; which being curious and very accurately performed, I shall here give a rather full and particular account of that little tract, as well as of the small specimen of the quadrature of curves by infinite series, subjoined to it; and more especially as this work gave occasion to the public communication of some of Sir Isaac Newton's earliest pieces, to evince that he had not borrowed them from this publication. So it appears that these two ingenious men had, independent of each other, in some instances fallen upon the same things.

Mercator begins this work with remarking that the word Logarithm is composed of the words ratio and number, being as much as to say the number of ratios; which he observes is quite agreeable to the nature of them, for that a logarithm is nothing else but the number of ratiunculæ contained in the ratio which any number bears to unity, He then makes a learned and critical dissertation on the nature of

I James Gregory was born at Aberdeen in Scotland 1638, where he was educated. He was professor of mathematics in the college of St. Andrews, and afterwards in that of Edinburgh. He died of a fever in December 1675, being only 36 years of age.

<sup>†</sup> Nicholas Mercator, a learned mathematician, and an ingenious member of the Royal Society, was a native of Holstein in Germany, but spent most of his time in England, where he died in the year 1690, at about 50 years of age. He was the author of many other works in Geometry, Geography, Astronomy, Astrology, &c.

ratios, their magnitude and measure, conveying a clearer idea of the nature of logarithms than had been given by either Napier or Briggs, or any other writer except Kepler, in his work before described; though those other writers seem indeed to have had in their own minds the same ideas on the subject as Kepler and Mercator, but without having expressed them so clearly. Our author indeed pretty closely follows Kepler in his modes of thinking and expression, and after him, in plain and express terms, calls logarithms the measures of ratios; and, in order to the right understanding that definition of them, he explains what he means by the magnitude of a ratio. This he does pretty fully, but not too fully, considering the nicety and subtlety of the subject of ratios; and their magnitude, with their addition to, and subtraction from, each other, which have been misconceived by very learned mathematicians, who have thence been led into considerable mistakes. Witness the oversight of Gregory St. Vincent, which Huygens animadverted on in the Egeraous Cyclometriæ Gregorii & Sancto Vincentio, and which arose from not understanding, or not adverting to, the nature of ratios, and their proportions one to another. And many other similar mistakes might here be adduced of other eminent writers. From all which we must commend the propriety of our author's attention, in so judiciously discriminating between the mag-

nitude of a ratio, as of a to b, and the fraction  $\frac{a}{b}$ , or quotient arising from the division of one term of the ratio by the other; which latter method of consideration is always attended with danger of errors and confusion on the subject; though in the 5th definition of the 6th book of Euclid this quotient is accounted the quantity of the ratio; but this definition is probably not genuine, and therefore very properly omitted by professor Simson in his edition of the Elements. And in those ideas on the subject of logarithms, Kepler and Mercator have been followed by Halley, Cotes, and most of the other eminent writers since that time.

Purely from the above idea of logarithms, namely, as being the measures of ratios, and as expressing the number of rationculæ contained in any ratio, or into which it may be divided, the number of the like equal ratiunculæ contained in some one ratio, as of 10 to 1, being supposed given, our author shows how the logarithm or measure of any other ratio may be found. But this however only by-the-by, as not being the principal method he intends to teach, as his last and best, and which we arrive not at till near the end of the book, as we Having shown then that these logarithms, or shall see below. numbers of small ratios, or measures of ratios, may be all properly represented by numbers, and that of 1, or the ratio of equality, the logarithm or measure being always 0, the logarithm of 10, or the measure of the ratio 10 to 1, is most conveniently represented by 1 with any number of ciphers; he then proceeds to show how the measures of all other ratios may be found from this last supposition. And he explains the principles by the two following examples. First, to find the logarithm of 100.5\*, or to find how many ratiunculæ are contained in the ratio of 100.5 to 1, the number of ratiunculæ

in the decuple ratio, or ratio of 10 to 1, being 1,0000000.

The given ratio 100.5 to 1, he first divides into its parts, namely, 100-5 to 100, 100 to 10, and 10 to 1; the last two of which being decuples, it follows that the characteristic will be 2, and it only remains to find how many parts of the next decuple belong to the first mio of 100.5 to 100. Now if each term of this ratio be multiplied by itself, the products will be in the duplicate ratio of the first terms, or this last ratio will contain a double number of parts; and if these be multiplied by the first terms again, the ratio of the last products will contain three times the number of parts; and so on, the number of times of the first parts contained in the ratio of any like powers of the first terms, being always denoted by the exponent of the power. If therefore the first terms, 100.5 and 100, be continually multiplied till the same powers of them have to each other a ratio whose measure is known, as suppose the decuple ratio 10 to 1, whose measure is 1,0000000; then the exponent of that power shows what multiple this measure 1,0000000, of the decuple ratio, is of the required measure of the first ratio 100.5 to 100; and consequently dividing 1,0000000 by that exponent, the quotient is the measure of the ratio 100-5 to 100 sought. The operation for finding this, he sets down as bere follows; where the several multiplications are all performed in the contracted way, by inverting the figures of the multiplier, and retaining only the first number of decimals in each product.

• Morcator distinguishes his decimals from integers thus 100[5, or 100[5.

	1	power	· _	
100-5000 -	- '	]	This power being	This being again too
5001 -	-	1	greater than the decuple	much, instead of the
1005000			of the like power of 100,	16th, draw it into the
5025			which must always be 1	8th or next preceding,
1010025 -		2	with ciphers, resume	thus
5200101 -	_	2	therefore the 256th	9340130 448
	•	4	power, and multiply it,	6070401 8
1010025			not by itself, but by the	9720329 456
10100			next before, viz. by	0510201 4
20		•	the 128th, thus	9916193 - 460
5			0704007	5200101 <b>2</b>
1020150 -	•	4	3584985 256	
0510201 -	-	4	6043981 128	10015603 462
1020150			6787831 384	Which power again
20403		ı	1106731 64	exceeds the limit; there-
102		1	9346130 448	fore draw the 460th
51			5303711 32	into the 1st, thus
1040706 -	-	8	10956299 480	9916193 460
6070101 -		8		5001 1
1083068 -	_	16		9965774 461
8603801 -	-	16	This power again exceeding the same power of 100 more than 10 times, I therefore draw	Since therefore the
1174045	_	QO	ceeding the same power	462d power of 100.5 is
5404711	_	90	of 100 more than 10	greater, and the 461st
		C.4	thmes, I therefore draw	power is less, than the
•			the same 448th, not in-	Demunde of Alice manner
1106781 -	•		to the 32d, but the next	power of 100; I find
			preceding, thus	that the ratio of 100-5
6043981 -				to 100 is contained in
3581985 -	-	256	9340130 448	the decuple more than
<b>5</b> 894853 -	-	256	8603801 - 16	461 times, but less than
12852116 -	-	512	10115994 - 464	the decuple more than 461 times, but less than 462 times. Again,
	_ (	460	( 9916193)	and the differences
Since th	• {	461	> power is \( \) 9965774 \( \)	49581 ] nearly
	(	462	power is \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	49829 J equal;

therefore the proportional part which the exact power, or 10000000, exceeds the next less 9965774, will be easily and accurately found by the Golden Rule, thus:

The just power - - 100000000 and the next less - - 9965774 the difference - - 34226; then

As 49829 the dif. between the next less and greater, : To 34226 the dif. between the next less and just,

:: So is 10000: to 6868, the decimal parts; and therefore the ratio of 100-5 to 100, is 461-6868 times contained in the decuple or

ratio of 10 to 1. Dividing now 1,0000000, the measure of the decuple ratio, by 461.6868, the quotient 00216597 is the measure of the ratio of 100.5 to 100; which being added to 2 the measure of 100 to 1, the sum 2,00216597 is the measure of the ratio of 100.5 to 1, that is, the log. of 100.5 is 2,00216597.

In the same manner he next investigates the log. of 99.5, and finds it to be 1,99782307. A few observations are then added, calculated to generalise the consideration of ratios, their magnitude, and their affections. It is here remarked, that he considers the magnitude of the ratio between two quantities as the same, whether the antecedent be the greater or the less of the two terms: so, the magnitude of the ratio of 8 to 5, is the same as of 5 to 8; that is, by the magnitude of the ratio of either to the other, is meant the number of ratiunculæ between them, which will evidently be the same, whether the greater or less term be the antecedent. And, he further remarks that, of different ravios, when we divide the greater term of each ratio by the less, that ratio is of the greater mass or magnitude, which produces the greater quotient, et vice versa; though those quotients are not proportional to the masses or magnitudes of the ratios. But when he considers the ratio of a greater term to a less, or of a less to a greater, that is to say, the ratio of greater or less inequality, as abstracted from the magnitude of the ratio, he distinguishes it by the word affection, as much as to say, greater or less affection, something in the manner of positive and negative quantities, or such as are affected with the signs + and -..... The remainder of this work he delivers in several propositions, as follows.

Prop. 1. In subtracting from each other, two quantities of the same affection, to wit, both positive, or both negative; if the remainder be of the same affection with the two given, then is the quantity subtracted the less of the two, or expressed by the less number; but if the contrary, it is the greater.

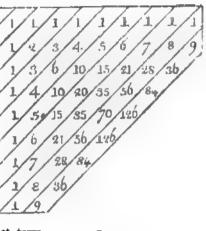
**Prop. 2.** In any continued ratios, as  $\frac{a}{a+b}$ ,  $\frac{a+b}{a+2b}$ ,  $\frac{a+2b}{a+3b}$ , &c. (by which is meant the ratios of a to a+b, a+b to a+2b, a+2b to a+3b, &c.) of equidifferent terms, the antecedent of each ratio being equal to the consequent of the next preceding one, and proceeding from less terms to greater; the measure of each ratio will be expressed by a greater quantity than that of the next following; and the same through all their orders of differences, namely, the 1st, 2d, 3d, &c. differences; but the contrary, when the terms of the ratios decrease from greater to less.

**Prop. S.** In any continued ratios of equidifferent terms, if the 1st or least be a, the difference between the 1st and 2d b, and c, d, e, &c. the respective first term of their 2d, 3d, 4th, &c, differences; then shall the several quantities themselves be as in the annexed scheme;

where each term is composed | 1st term of the first term, together with as many of the differences as it is distant from the first term, and to those differences joining, for coefficients, the numbers in the sloping or oblique lines contained in the annexed table of figurate numbers, in the same manner, he observes, as the same figurate numbers complete the powers raised from a binomial root, as had long before been taught by others. He also remarks, that this rule not only gives any one term, but also the sum of any number of successive terms from the beginning, making the 2d coefficient the first, the 3d the 2d, and so on; thus, the sum of the first 5 terms is 5a + 10b + 10c + 5d + e

In the 4th prop. it is shown, that if the terms decrease, proceeding from the greater to the less, the same theorems hold good, by only changing the sign of every other term, as in the margin.

1st term - - a
2d term - - a + b
3d term - - a + 2b + c
4th term - - a + 3b + 3c + d
5th term - - a + 4b + 6c + 4d + c
&c.



| 1st term - - a | 2d term - - a = b | 3d term - - a = 2b + c | 3d term - - a = 2b + c | 4th term - - a = 3b + 3c = d | 5th term - - a = 4b + 6c = 4d + c | &c. &c.

**Prop.** 6 and 7 treat of the approximate multiplication and division of ratios, or, which is the same thing, the finding nearly any powers, or any roots of a given fraction, in an easy manner. The theorem for raising any power, when reduced to a simpler form, is this, the m power of  $\frac{a}{b}$ , or,  $(\frac{a}{b})^m$ , is  $\frac{s \mp md}{s \pm md}$  nearly, where s is  $\mp a + b$ , and  $d = a \cos b$ , the sum and difference of the two numbers, and the upper or under signs taking place according as  $\frac{a}{b}$  is a proper or an improper fraction, that is, according as a is less or greater than b. And the theorem for extracting the mth root of  $\frac{a}{b}$ , or  $\frac{a}{b}$  is

 $\left(\frac{a}{b}\right)^{\frac{1}{m}} = \frac{ms \mp d}{ms \pm d}$  nearly; which latter rule is also the same as the former, as will be evident by substituting  $\frac{1}{m}$  instead of m in the first

theorem. So that universally  $(\frac{a}{b})^{\frac{m}{n}}$  is  $=\frac{ns\mp md}{ns\pm md}$  nearly. These theorems however are nearly true only in some certain cases, namely, when  $\frac{a}{b}$  and  $\frac{m}{n}$  do not differ greatly from unity. And in the 7th prop. the author shows how to find nearly the error of the theorems.

In the 8th prop. it is shown, that the measures of ratios of equidifferent terms, are nearly reciprocally as the arithmetical means between the terms of each ratio. So of the ratios  $\frac{16}{18}$ ,  $\frac{33}{35}$ ,  $\frac{50}{59}$ , the mean between the terms of the first ratio is 17, of the 2d 34, of the 3d 51, and the measure of the ratios are nearly as  $\frac{1}{17}$ ,  $\frac{1}{34}$ ,  $\frac{1}{51}$ . From this property he proceeds, in the 9th prop. to find the measure of any ratio less than  $\frac{99.5}{100.5}$ , which has an equal difference (1) of terms. In the two examples mentioned near the beginning, our author found the logarithm, or measure of the ratio, of  $\frac{99.5}{100}$ , to be 21769, and that of  $\frac{100}{100.5}$  to be 21659, therefore the sum 43429 is the logarithm of  $\frac{99.5}{100.5}$ , or  $\frac{99.5}{100}$ ,  $\times \frac{100}{100.5}$ ; or the logarithm of  $\frac{99.5}{100.5}$ is nearer 43430, as found by other more accurate computations.— Now to find the logarithm of  $\frac{100}{101}$ , having the same difference of terms (1) with the former; it will be, by prop. 8, as 100.5 (the mean between 101 and 100): 100 (the mean between 99.5 and 100.5) :: 43430 : 43213 the logarithm of  $\frac{100}{101}$ , or the difference between the logarithms of 100 and 101. But the log. of 100 is 2; therefore the logarithm of 101 is 2,0043213. ——Again, to find the logarithm of 102, we must first find the logarithm of  $\frac{101}{102}$ ; the mean between its terms being 101.5, therefore as 101.5: 100:: 43430: 42788 the logarithm of  $\frac{101}{102}$ , or the difference of the logarithms of 101 and 102. But the logarithm of 101 was found above to be 2,0043213; therefore the logarithm of 102 is 2,0086001.—So that, dividing continually 868596 (the double of 434298 the logarithm of  $\frac{99.5}{100.5}$  or  $\frac{199}{201}$ ) by each number of the series 201, 208, 205, 207, &c, then add 2 to the first quotient, to the sum add the 2d quotient, and so on, adding always the next quotient to the last sum, the several sums will be the respective logarithms of the numbers in this series 101, 102, 103, 104, &c.

The next, or prop. 10, shows that, of two pair of continued ratios whose terms have equal differences, the difference of the measures of the first two ratios, is to the difference of the measures of the other two, as the square of the common term in the two latter, is to that in the former, nearly. Thus, in the four ratios  $\frac{a}{a+b} \frac{a+3b}{a+3b} \frac{a+4b}{a+4b}$ ; as the measure of  $\frac{aa+2ab}{a+2ab}$  (the difference

 $\frac{a+b}{a+2b}$ ,  $\frac{a+4b}{a+4b}$ ,  $\frac{a+4b}{a+5b}$ ; as the measure of  $\frac{aa+2ab}{(a+b)}$  (the difference of the first two, or the quotient of the of the first two, or the quotient of the two fractions): is to the measure of  $\frac{aa + 8ab + 15bb}{(a+1b)^2}$ : so  $(a+4b)^2$ : is to  $(a+b)^2$ , nearly.

In prop. 11, the author shows, that similar properties take place among two sets of ratios consisting each of 3 or 4, &c, continued

Prop. 12 shows that, of the powers of numbers in arithmetical progression, the orders of differences which become equal, are the 2d differences in the squares, the 3d differences in the cubes, the 4th differences in the 4th powers, &c. And hence it is shown how to construct all those powers by the continual addition of their differences;

as had been long before more fully explained by Briggs.

In the next, or 13th prop. our author explains his compendious method of raising the tables of logarithms, showing how to construct the logarithms by addition only, from the properties contained in the 8th, 9th, and 12th propositions. For this purpose, he makes use of

the quantity  $\frac{a}{b-c}$ , which by division he resolves into this infinite se-

rics  $\frac{a}{b} + \frac{ac}{bb} + \frac{ac^3}{b^3} + \frac{ac^3}{b^4}$  &c (in infin.). Putting then a=100, the

arithmetical mean between the terms of the ratio  $\frac{99.5}{100.5}$ , b=100000, and c successively equal to 0.5, 1.5, 2.5, &c, that so b-c may be respectively equal to 99999.5,99998.5,99997.5, &c, the corresponding 99999 99998 99997 means between the terms of the ratios 100000, 99990, 99998,

it is evident that  $\frac{a}{b-c}$  will be the quotient of the 2d term divided by the 1st, in the proportions mentioned in the 8th and 9th propositions; and when all of these quotients are found, it remains then only to multiply them by the constant 3d term 43429, or rather 43429'8, of the proportion, to produce the logarithms of the ratios 99999 99998 99997

99999 99998 99998, &c, till 10000, then adding these continually to 4, the logarithm of 10000, the least number, or subtracting them from 5, the logarithm of the highest term 100000, there will result the logarithms of all the absolute numbers from 10000 to 100000. Now when c=0.5, then

Ac. But instead of constructing all the values of  $\frac{a}{b-c}$  in the usual way of raising the powers, he directs how they may be found by ad-

dition only, as in the last proposition. Having thus

found all the values of  $\frac{a}{b-c}$ , the author then shows, that they may be drawn into the constant logarithm 43429 by addition only, by the help of the annexed table of the first 9 products of it.

The author then distinguishes which of the logarithm

The author then distinguishes which of the logarithms it may be proper to find in this way, and which from their component parts. Of these, the logarithms of all even numbers need not be thus computed, being composed from the number 2; which cuts off one-half

of the numbers: neither are those numbers to be computed which end in 5, because 5 is one of their factors; these last are  $\frac{1}{10}$  of the numbers; and the two together  $\frac{1}{2} + \frac{1}{10}$  make  $\frac{3}{2}$  of the whole, and of the other  $\frac{2}{3}$ , the  $\frac{1}{3}$  of them, or  $\frac{2}{13}$  of the whole, are composed of 3; and hence  $\frac{3}{2} + \frac{2}{13}$ , or  $\frac{11}{13}$  of the numbers, are made up of such as are composed of 2, 3, and 5. As to the other numbers, which may be composed of 7, of 11, &c; he recommends to find their logarithms in the general way, the same as if they were incomposites, as it is not worth while to separate them in so easy a mode of calculation. So that of the 90 chiliads of numbers from 10000 to 100000, only 24 chiliads are to be computed. Neither indeed are all of these to be

calculated from the foregoing series for  $\frac{a}{b-c}$ , but only a few of them

in that way, and the rest by the proportion in the 8th proposition. Thus, having computed the logarithms of 10003 and 10013, omitting 10023, as being divisible by 3, estimate the logarithms of 10033 and 10043, which are the 30th numbers from 10003 and 10013; and again omitting 10053, a multiple of 3, find the logarithms of 10063 and 10073. Then by prop. 8, say,

As 10048, the arithmetical mean between 10033 and 10063, to 10018, the arithmetical mean between 10003 and 10033,

13006, the difference between the logarithms of 10003 and 10033, to 12967, the difference between the logarithms of 10033 and 10063.

That is,  $1st - As \begin{cases} 10048 \\ 10078 \\ 10108 \end{cases}$ : 10018:: 13006:  $\begin{cases} 12967 \\ & & \\ & & \end{cases}$ 

`Again, As 
$$\begin{cases} 10058 \\ 10088 \\ 10118 \end{cases}$$
: 10028 :: 12992 :  $\begin{cases} 12953 \\ & & & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ \end{cases}$ : 10038 :: 12979 :  $\begin{cases} 12940 \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ \end{cases}$ 

And with this our author concludes his compendium for constructing

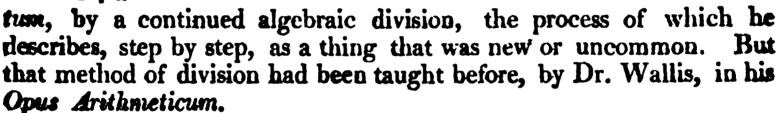
the tables of logarithms.

He afterwards shows some applications and relations of the doctrine of logarithms to geometrical figures: in order to which, in

prop! 14, he proves algebraically that, in the rightangled hyperbola, if from the vertex, and from any other point, there be drawn BI, FH perpendicular to the asymptote AH, or parallel to the other asymptote; then will AH: AI:: BI: FH. And,

In prop. 15, if AI = BI = 1, and HI = a; then will

$$FH = \frac{1}{1+a} = 1 - a + a^2 - a^3 + a^4 - a^5 &c, in infini-$$



Prop. 16 is this: Any given number being supposed to be divided into innumerable small equal parts, it is required to assign the sum of any powers of the continual sums of those innumerable parts. For which purpose he lays down this rule; if the next higher power of the given number, above that power whose sum is sought, be divided by its exponent, the quotient will be the sum of the powers sought. That is, if N be the given number, and a one of its innumerable equal parts, then will

$$a^{n} + (2a)^{n} + (3a)^{n} + (4a)^{n} &c...N^{n} be = \frac{N^{n} + 1}{n - 1}$$
: which theorem

he demonstrates by a method of induction. And this, it is evident, is the finding the sum of any powers of an infinite number of arithmeticals, of which the greatest term is a given quantity, and the least indefinitely small. It is also remarkable, that the above expression is similar to the rule for finding the fluent to the given fluxion of a power, as afterwards taught by Sir I. Newton.

Mercator then applies this rule, in prop. 17, to the quadrature of the hyperbola. Thus, putting Al=1, conceive the asymptote to be divided from I into innumerable equal parts, namely, lp=pq=qr=a; then, by the 14th and 15th,

$$ps = 1 - a + a^2 - a^3 & c$$
  
 $qt = 1 - 2a + 4a^2 - 8a^3 & c$   
 $ru = 1 - 3a + 9a^2 - 27a^3 & c$ 
But the area BIru is = the sum  $ps + qt + ru$ , which is =

 $3-6a+14a^2-36a^3$  &c, that is, equal to the number of terms contained in the line Ir, minus the sum of those terms, plus the

sum of the squares of the same, minus the sum of their cubes, plus the sum of the 4th powers, &c. Putting now IA=1, as before, and lp=0.1 the number of terms, to find the area BIps: by prop. 16 the

sum of the terms will be  $\frac{()\cdot |^2}{2} = .005$ , the sum of their squares =

7000333333, the sum of their cubes 000025, the sum of the 4th powers 0000002, the sum of the 5th powers 000000166, the sum of the 6th powers 000000014, &c. Therefore the area BIps is 1 - 0005 + 0000333333 - 000025 + 000002 - 000000166 + 000000014 &c = <math>100335347 - 005025166 = 095310181 &c.

Again, putting Iq =  $\cdot 21$  the number of terms, he finds in like manner the area Blqt =  $\cdot 21 - \cdot 02205 + \cdot 003087 - 000486202 + \cdot 000031682 - \cdot 000014294 + \cdot 000002572 - \cdot 000000472 + \cdot 000000038 &c = \cdot 213171345 - \cdot 022550984 = \cdot 190620361 &c.$ 

He then adds, hence it appears that, as the ratio of Al to Ap, or I to 1.1, is half or subduplicate of the ratio of AI to Aq, or I to 1.21, so the area BIps is here found to be half of the area BIqt. These areas he computes to 44 places of figures, and finds them still in the ratio of 2 to 1.

The foregoing doctrine amounts to this, that if the rectangle BI  $\times$  Ir, which in this case is expressed by Ir only, be put = A, AI being = 1 as before; then the area BIru, or the hyperbolic logarithm of 1 + A, or of the ratio of 1 to 1 + A, will be equal to the infinite series  $A - \frac{1}{2}A^2 + \frac{1}{3}A^3 - \frac{1}{4}A^4 + \frac{1}{3}A^5$  &c; and which therefore may be considered as Mercator's quadrature of the hyperbola, or his general expression of an hyperbolic logarithm in an infinite series. And this method was further improved by Dr. Wallis in the Philos. Trans. for the year 1663.

In prop. 18 Mercator compares the hyperbolic areolæ with the rationculæ of equidifferent numbers, and observes that, the areola Blps is the measure of the rationcula of AI to Ap, the areola spqt is the measure of the rationcula of Ap to Aq, the areola tqru is the measure of the rationcula of Aq to Ar, &c.

Finally, in the 19th prop. he shows how the sums of logarithms may be taken, after the manner of the sums of the areola. And hence infers as a corollary, how the continual product of any given numbers in arithmetical progression may be obtained; for the sum of the logarithms is the logarithm of the continual product. He then remarks, that from the premises it appears, in what manner Mersennus's problem may be resolved, if not geometrically, at least in figures to any number of places. And thus closes this ingenious tract.

In the Philos. Trans. for 1668 are also given some further illustrations of this work, by the author himself. And in various places also in a similar manner are logarithms and hyperbolic areas treated of by Lord Brouncker, Dr. Wallis, Sir I. Newton, and many other learned persons.

Of Gregory's Exercitationes Geometrica.

In the same year 1668 came out Mr. James Gregory's Exercitationes Geometrica, in which are contained the following pieces:

1, Appendicula ad veram circuli et hyperbolæ quadraturam?

2, N. Mercatoris quadratura hyperbolæ geometrice demonstrata:

3, Analogia inter lineam meridianam planisphærii nautici et tangentes artificiales geometricè demonstrata; seu quod secantium naturalium additio efficiat tangentes artificiales: — 4, Item, quot tangentium naturalium additio efficiat secantes artificiales: — 5, Quadratura conchoidis: — 6, Quadratura cissoidis: — & 7, Methodus facilis et accurata componendi secantes et tangentes artificiales.

The first of these pieces, or the Appendicula, contains some further extension and illustration of his Vera circuli et hyperbolæ quadratura, occasioned by the animadversions made on that work by the celebrated

mathematician and philosopher Huygens.

In the 2d is demonstrated geometrically, the quadrature of the hyperbola; by which he finds a series similar to Mercator's for the logarithm, or the hyperbolic space beyond the first ordinate (BI, fig. pa. 96.) In like manner he finds another series for the space at an equal distance within that ordinate. These two series having all their terms alike, but all the signs of the one plus, and those of the other alternately plus and minus, by adding the two together, every other term is cancelled, and the double of the rest denotes the sum of both spaces. Gregory then applies these properties to the logarithms; the conclusion from all which may be thus briefly expressed:

since 
$$A = \frac{1}{4}A^2 + \frac{1}{3}A^3 - \frac{1}{4}A^4$$
 &c = the log. of  $\frac{1+A}{1}$ ,  
and  $A + \frac{1}{4}A^2 + \frac{1}{3}A^3 + \frac{1}{4}A^4$  &c = the log. of  $\frac{1}{1-A}$ ,  
therefore  $2A + \frac{1}{3}A^3 + \frac{2}{3}A^5 + \frac{2}{7}A^7$  &c = the log. of  $\frac{1+A}{1-A}$ ,

or of the ratio of 1-A to 1+A. Which may be accounted Gre-

gory's method of making logarithms.

The remainder of this little volume is chiefly employed about the nautical meridian, and the logarithmic tangents and secants. It does not appear by whom, nor by what accident, was discovered the analogy between a scale of logarithmic tangents and Wright's protraction of the nautical meridian line, which consisted of the sums of the secants. It appears however to have been first published, and introduced into the practice of navigation, by Henry Bond, who mentions this property in an edition of Norwood's Epitome of Navigation, printed about 1645; and he again treats of it more fully in an edition of Gunter's works, printed in 1653, where he teaches, from this property, how to resolve all the cases of Mercator's sailing by the logarithmic tangents, independent of the table of meridional parts. This analogy had only been found to be nearly true by trials, but not demonstrated to be a mathematical property. Such demonstration seems to have been first discovered by Nicholas Mercator, who, desirous of making the most advantage of this

and another concealed invention of his in navigation, by a paper in the Philos. Trans. for June 4, 1666, invites the public to enter into a wager with him, on his ability to prove the truth or falsehood of the supposed analogy. But this mercenary proposal it seems was not taken up by any one, and Mercator reserved his demonstration. The proposal however excited the attention of mathematicians to the subject itself, and a demonstration was not long wanting. The first was published about two years after by Gregory, in the tract now under consideration, and from thence and other similar properties, here demonstrated, he shows, in the last article, how the tables of logarithmic tangents and secants. The substance of which is as follows:

Let AI be the arc of a quadrant Hextended in a right line, and let the figure AHI be composed of the natural tangents of every arc? from the point A, erected perpendicular to AI at their respective points: let AP, PO, ON, NM, &c, be the very small equal parts into which the quadrant is divided, namely, each the quadrant is divided, namely, each to AI. The of a degree: draw PB, OC, ND, MB, &c, perpendicular to AI.

R S T V C B

Then it is manifest, from what had been demonstrated, that the figures ABP, ACO, &c, are the artificial secants of the arcs AP, Ao, &c, putting 0 for the artificial radius. It is also manifest, that the rectangles во, см, рм, &c, will be found from the multiplication of the small part AP of the quadrant by each natural tangent. be proceeds, there is a little more difficulty in measuring the figures ABP, BCX, CDV, &c; for if the first differences of the tangents be equal, AB, BC, CD, &C, will not differ from right lines, and then the figures ABP, BCX, CDV, &c, will be right-angled triangles, and therefore any one, as HQG, will be = 1 QH × QG: but if the second differences be equal, the said figures will be portions of trilineal quadratrices; for example HQG will be a portion of a trilineal quadratrix, whose axis is parallel to QH; and each of the last differences being z, it will be QHG =  $\frac{1}{2}$  QH × QG $-\frac{1}{12}$  z × QG: and if the third differences be equal, the said figures will be portions of trilineal cubices, and then shall QHG be = ½ QH × QG—( / (1/2)  $QH \times Z \times QG^2 - \frac{1}{728} Z^2 \times QG^2$ ): when the 4th differences are equal, the said figures are portions of trilineal quadrato-quadratrices, and the 4th differences are equal to 24 times the 4th power of QG divided by the cube of the latus rectum; also when the 5th differences are equal, the said figures are portions of trilineal sursolids, and the 5th differences are equal to 120 times the sursolid of QG divided by the 4th power of the latus rectum; and so on in infinitum. What has been here said of the composition of artificial secants from the natural tangents, it is remarked, may in like manner

be understood of the composition of artificial tangents, from the natural secants, according to what was before demonstrated. It is also observed that the artificial tangents and secants are computed, as above, on the supposition that 0 is the logarithm of 1, and 1000000000000 the radius, and 2302585092994015624017870 the logarithm of 10; but that they may be more easily computed, namely, by addition only, by putting  $\frac{1}{10}$  of a degree = QG = AP = 1, and the logarithm of 10=7915704467897819; for by this means  $\frac{1}{2}QH \times QG$  is  $= \frac{1}{2}QH = QHG$ , and  $\frac{1}{2}QH \times QG = \frac{1}{12}Z \times QG = \frac{1}{2}QH = \frac{1}{2}Z = QHG$ , also

I QH × QG —  $\sqrt{(\frac{1}{7^2})}$  QH × z × QG<sup>2</sup> —  $\frac{1}{17^28}z^2$  × QG<sup>2</sup>) = IQH" —  $\sqrt{(\frac{1}{7^2})}$  QH × z —  $\frac{1}{17^28}z^2$ ) = QHG: and finally, by one division only are found the artificial tangents and secants to 100000000000000000, the logarithm of 10, putting still 1 for radius, which are the differences of the artificial tangents and secants, in the table from that artificial radius; and to make the operations easier in multiplying by the number 7915704467897819, or logarithm of 10, a table is set down of its products by the first 9 figures. But if AP or QG be =  $\frac{1}{100}$  of a degree, the artificial tangents and secants will answer to 13192840779829703 as the logarithm of 10, the first 9 multiples of which are also placed in the table. But to represent the numbers by the artificial radius, rather than by the logarithm of 10, the author directs to add ciphers, &c.—And so much for Gregory's Exercitationes Geometrica.

The same analogy between the logarithmic tangents and the meridian line, as also other similar properties, were afterwards more elegantly demonstrated by Dr. Halley in the Philos. Trans. for Feb. 1696, and various methods given for computing the same, by examining the nature of the spirals into which the rhumbs are transformed in the stereographical projection of the sphere on the plane of the equator: the doctrine of which was rendered still more easy and elegant by the ingenious Mr. Cotes, in his Logometria, first printed in the Philos. Trans. for 1714, and afterwards in the collection of his works published in 1732 by his cousin Dr. Robert Smith, who succeeded him in the Plumian professorship of philosophy in the University of Cambridge.

The learned Dr. Isaac Barrow also, in his Lectiones Geometrica, Lect. XI. Append. first published in 1672, delivers a similar property, namely, that the sum of all the secants of any arc is analogous to the logarithm of the ratio of r+s to r-s, or radius plus sine to radius minus sine; or, which is the same thing, that the meridional parts answering to any degree of latitude, are as the logarithms of the ratios of the versed sines of the distances from the two poles.

Mr. Gregory's method for making logarithms was further exemplified in numbers, in a small tract on this subject, printed in 1688, by one Euclid Speidell, a simple and illiterate person, and son of John Speidell, before mentioned among the first writers on logarithms.

Gregory also invented many other infinite series, and among them these following, viz. a being an arc, t its tangent, and s the secant, to the radius r; then is

$$a = t - \frac{t^3}{3r^2} + \frac{t^5}{5r^4} - \frac{t^7}{7r^6} + \frac{t^9}{9r^3} &c.$$

$$t = a + \frac{a^3}{3r^2} + \frac{2a^5}{15r^4} + \frac{17a^7}{315r^6} + \frac{62a^9}{2835r^8} &c.$$

$$s = r + \frac{a^2}{2r} + \frac{5a^4}{24r^3} + \frac{61a^2}{720r^5} + \frac{277a^4}{8064r^7} &c.$$

And if  $\tau$  and  $\sigma$  denote the artificial or logarithmic tangent and secant of the same arc a, the whole quadrant being q, and e=2a-q; then is

$$e = \tau - \frac{\tau^3}{6r^2} + \frac{\tau^5}{24r^4} - \frac{61\tau^7}{5040r^6} + \frac{277\tau^9}{72576r^8} &c.$$

$$\tau = e + \frac{e^3}{6r^2} + \frac{e^5}{24r^4} + \frac{61e^7}{5040r} + \frac{277e^9}{72576r^8} &c.$$

$$\sigma = \frac{a^2}{2r} + \frac{a^4}{12r^3} + \frac{a}{45r^5} + \frac{17a^8}{2520r'} + \frac{62a^{10}}{28350r^9} &c.$$

Also if s denote the artificial secant of 45°, and s + l the artificial secant of any arc a, the artificial radius being 0; then is

$$a = \frac{1}{2}q + l - \frac{l^2}{r} + \frac{4l^3}{3r^2} - \frac{7l^4}{3r^3} + \frac{14l^5}{3r^4} - \frac{452l^6}{45r^5} &c.$$

The investigation of all which series may be seen at pa. 298 et seq. vol. 1. Dr. Horsley's learned and elegant commentary on Sir I. Newton's works, as they were given in the Commercium Epistolicum  $N^{\circ}$  xx, without demonstration, and where the number 2 is also wanting in the denominator of the first term of the series expressing the value of  $\sigma$ .

Such then were the ways in which Mercator and Gregory applied these their very simple series  $A - \frac{1}{2}A^2 + \frac{1}{3}A^3 - \frac{1}{4}A^4$  &c, and  $A + \frac{1}{2}A^2 + \frac{1}{3}A^3 + \frac{1}{4}A^4$  &c, for the purpose of computing logarithms. But they might, as I apprehend, have applied them to this purpose in a shorter and more direct manner, by computing, by their means, only a few logarithms of small ratios, in which the terms of the series would have decreased by the powers of 10 or some greater number, the numerators of all the terms being unity, and their denominators the powers of 10 or some greater number, and then employing these few logarithms, so computed, to the finding of the logarithms of other and greater ratios, by the easy operations of mere addition and subtraction. This might have been done for the logarithms of the ratios of the first ten numbers, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11, to 1, in the following manner, communicated by Mr. Baron Maseres.

In the first place, the logarithm of the ratio of 10 to 9, or of 1 to  $\frac{9}{10}$ , or of 1 to  $1 - \frac{1}{10}$ , is equal to the series

$$\frac{1}{1 \times 10} + \frac{1}{2 \times 100} + \frac{1}{3 \times 1000} + \frac{1}{4 \times 10000} + \frac{1}{5 \times 100000} &c.$$

In like manner are easily found the logarithms of the ratios of

11 to 10; and then, by the same series, those of 121 to 120, and of 81 to 80, and of 2401 to 240; in all which cases the series would converge still faster than in the first two cases. We may then proceed by mere addition and subtraction of logarithms, as follows:

Log.  $\frac{11}{9} = L$ .  $\frac{11}{19} + L$ .  $\frac{19}{9}$ , L.  $\frac{129}{89} = L$ .  $\frac{1}{2}$ , L.  $\frac{1}{9} = L$ .  $\frac{1}{9}$ . L.  $\frac{1}{9} = L$ .  $\frac{1}{9}$ . L.  $\frac{1}{9} = L$ .  $\frac{1}{9}$ .

Having thus got the logarithm of the ratio of 2 to 1, or, in common language, the logarithm of 2, the logarithms of all kinds of even numbers may be derived from those of the odd numbers, which are their coefficients, with 2 or its powers. We may then proceed as follows:

L.  $4 = 2L \cdot 2$ , L.  $100 = 2L \cdot 10$ , L.  $2401 = L \cdot \frac{2}{4} + \frac{2}{6} + L \cdot 2400$ , L.  $10 = L \cdot \frac{1}{4} + L \cdot 4$ , L.  $100 = 2L \cdot 100 + L \cdot 24$ , L.  $11 = L \cdot \frac{1}{4} + L \cdot 100 + L \cdot 24$ , L.  $11 = L \cdot \frac{1}{4} + L \cdot 100 + L \cdot 10$ 

Thus we have got the logarithms of 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11. And this is, on the whole, perhaps the best method of computing logarithms that can be taken. There have been indeed some methods discovered by Dr. Halley, and other mathematicians, for computing the logarithms of the ratios of prime numbers to the next adjacent even numbers, which are still shorter than the application of the foregoing series. But those methods are less simple and easy to understand and apply, than these series; and the computation of logarithms by these series, when the terms of them decrease by the powers of 10, or of some greater number, is so very short and easy (as we have seen in the foregoing computations of the logarithms of the ratios of 10 to 9, 11 to 10, 81 to 80, 121 to 120, &c,) that it is not worth while to seek for any shorter methods of computing them. And this method of computing logarithms is very nearly the same with that of Sir Isaac Newton, in his second letter to Mr. Oldenburg, dated October 1676, as will be seen in the following article.

## Of Sir Isaac Newton's Methods.

3

E

The excellent Sir I. Newton greatly improved the quadrature of the hyperbolical-asymptotic spaces by infinite series, derived from the general quadrature of curves by his method of fluxions; or rather indeed he invented that method himself, and the construction of logarithms derived from it, in the year 1665 or 1666, before the publication of either Mercator's or Gregory's books, as appears by his letter to Mr. Oldenburg, dated Oct. 24, 1676, printed in pa. 634 et

seq. vol. 3, of Wallis's works, and elsewhere. The quadrature of the hyperbola, thence translated, is to this effect. Let dfD be an hyperbola, whose centre is c, vertex f, and interposed square CAFE = 1. In CA take AB and Ab on each side = 10 or 0.1: And, erecting the perpendiculars BD, bd; half the sum of the spaces AD and Ad will be

$$=0.1 + \frac{0.001}{3} + \frac{0.00001}{5} + \frac{0.0000001}{7} &c.$$
and the half diff. 
$$= \frac{0.01 + 0.0001}{4} + \frac{0.0000001}{6} + \frac{0.00000001}{8} &c.$$

Which reduced will stand thus,

The sum of these 0.1053605156577 is Ad, and the differ. 0.0953101798043 is AD, In like manner, putting AB and Ab each=0.2, there is obtained Ad =0.2231435513142, and =0.1823215567939.

**0100335347731**0.0·0050251679267

Having thus the hyperbolic logarithms of the four decimal numbers 0.8, 0.9, 1.1, and 1.2; and since  $\frac{1.2}{0.8} \times \frac{1.2}{0.9} = 2$ , and 0.8 and 0.9 are less than unity; adding their logarithms to double the logarithm of 1.2, we have 0.6931471805597, the hyperbolic logarithm of 2. To the triple of this adding the logarithm of 0.8, because

 $\frac{2 \times 2 \times 2}{60}$  = 10, we have 2.3025850929933, the logarithm of 10.

Hence by one addition are found the logarithms of 9 and 11: And thus the logarithms of all these prime numbers, 2, 3, 5, 11, are prepared. Moreover, by only depressing the numbers above computed, lower in the decimal places, and adding, are obtained the logarithms of the decimals 0.98, 0.99, 1.01, 1.02; as also of these 0.998, 0.999, 1.001, 1.002. And hence, by addition and subtraction, will arise the logarithms of the primes 7, 13, 17, 37, &c. All which logarithms being divided by the above logarithm of 10, give the common logarithms to be inserted in the table.

And again, a few pages farther on, in the same letter, he resumes the construction of the logarithms, thus: Having found, as above, the hyperbolic logarithms of 10, 0.98, 0.99, 1.01, 1.02, which may be effected in an hour or two, dividing the last four logarithms by the logarithm of 10, and adding the index 2, we have the tabular logarithms of 98, 99, 100, 101, 102. Then by interpolating nine means between each of these, will be obtained the logarithms of all numbers between 980 and 1020; and again interpolating 9 means between every two numbers from 980 to 1000, the table will be so far constructed. Then from these will be collected the logarithms of all the primes under 100, together with those of their multiples; all which will require only addition and subtraction; for

$$\frac{9984 \times 1020}{9945} = 2; \frac{10}{2} = 5; \sqrt{\frac{98}{2}} = 7; \frac{99}{9} = 11; \frac{1001}{7 \times 11} = 13; \frac{102}{6} = 17;$$

$$\frac{968}{4 \times 13} = 19; \frac{9936}{16 \times 27} = 23; \frac{966}{2 \times 17} = 29; \frac{992}{32} = 31; \frac{999}{27} = 37; \frac{984}{24} = 41;$$

$$\frac{969}{23} = 43; \frac{987}{27} = 47; \frac{9911}{11 \times 17} = 53; \frac{9971}{13 \times 13} = 59; \frac{9882}{2 \times 81} = 61; \frac{9849}{3 \times 49} = 67;$$

$$\frac{994}{14} = 71; \frac{9928}{8 \times 17} = 73; \frac{9954}{7 \times 18} = 79; \frac{996}{12} = 83; \frac{9968}{7 \times 16} = 89; \frac{9894}{6 \times 17} = 97.$$

This quadrature of the hyperbola, and its application to the con-struction of logarithms, are still further explained by our celebrated author in his treatise on Fluxions, published by Colson in 1736, where he gives all the three series for the areas AD, Ad, Bd, in general terms, the former the same as that published by Mercator, and the latter by Gregory; and he explains the manner of deriving the latter series from the former, namely by uniting together the two series for the spaces on each side of an ordinate, bounded by other ordinates at equal distances, every 2d term of each series is cancelled, and the result is a series converging much quicker than either of the for-And, in this treatise on fluxions, as well as in the letter before quoted, he recommends this as the most convenient way of raising a canon of logarithms, computing by the series the hyperbolic spaces answering to the prime numbers 2, 3, 5, 7, 11, &c, and dividing them by 2:3025850929910157, which is the area corresponding to the number 10, or else multiplying them by its reciprocal 0.4312944819032518, for the common logarithms. "Then the logarithms of all the numbers in the canon which are made by the multiplication of these, are to be found by the addition of their logarithms, as is usual. And the void places are to be interpolated afterwards by the help of this theorem: Let n be a number to which a logarithm is to be adapted, x the difference between that and the two nearest numbers equally distant on each side, whose logarithms are already found, and let d be half the difference of the logarithms; then the required logarithm of the number n will be obtained by adding  $d + \frac{dx}{2n} + \frac{dx^3}{12n^3}$  &c to the logarithm of the less number." This theorem he demonstrates by the hyperbolic areas, and then proceeds thus; "The two first terms  $d + \frac{dx}{2n}$  of this series I think to be accurate enough for the construction of a canon of logarithms, event though they were to be produced to 14 or 15 figures; provided the number whose logarithm is to be found be not less than 1000. And this can give little trouble in the calculation, because x is generally Yet it is not necessary to interpolate all an unit, or the number 2. the places by the help of this rule. For the logarithms of numbers which are produced by the multiplication or division of the number last found, may be obtained by the numbers whose logarithms were had before, by the addition or subtraction of their logarithms. Moreover, by the differences of the logarithms, and by their 2d and 3d differences, if there be occasion, the void places may be more expeditiously supplied; the foregoing rule being to be applied only when the continuation of some full places is wanted, in order to obtain those differences, &c." So that Sir I. Newton of himself discovered all the series for the above quadrature which were found out, and afterwards published, partly by Mercator and partly by Gregory; and these we may here exhibit in one view all together and that its a general manner for any hyperbola, namely putting CA=a, AF

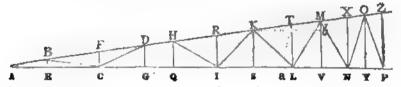
= b, and AB = Ab = x; then will BD =  $\frac{ab}{a+x}$ , and bd =  $\frac{ab}{a+x}$ ; whence the areas are as below, viz.

$$AD = bx - \frac{bx^{4}}{2a} + \frac{bx^{3}}{3a^{2}} - \frac{bx^{4}}{4a^{3}} + \frac{bx^{5}}{5a^{4}} &c.$$

$$Ad = bx + \frac{bx^{2}}{2a} + \frac{bx^{3}}{3a^{2}} + \frac{bx^{4}}{4a^{3}} + \frac{bx^{5}}{5a^{4}} &c.$$

$$Ad = 2bx + \frac{2bx^{5}}{3a^{3}} + \frac{2bx^{5}}{5a^{4}} + \frac{2bx^{7}}{7a^{5}} + \frac{2bx^{9}}{9a^{4}} &c.$$

In the same letter also, above quoted, to Mr. Oldenburg, our illustrious author teaches a method of constructing the trigonometrical canon of sines, by an easier method of multiple angles than that before delivered by Briggs for the same purpose, because that in Sir lanc's way radius or 1 is the first term, and double the sine or cosine of the first given angle is the 2d term of all the proportions by which the several successive multiple sines or cosines are found. The substance of the method is thus: The best foundation for the construction of the tables of sines, is the continual addition of a given angle to itself or to another given angle. As if the angle A be to be added;



inscribe HI, IK, KL, LM, MN, NO, OP, &c, each equal to the radius AB; and to the opposite sides draw the perpendiculars DB, HQ, IR, KS, LT, MV, NX, OY, &c; so shall the angle A be the common difference of the angles HIQ, IKH, KLI, LMK, &c; their sines HQ, IR, KS, &c; and their cosines IQ, KR, LS, &c. Now let any one of them, LMK, be given, then the rest will be thus found: Draw Ta and Kb perpendicular to sv and MV; now because of the equiangular triangles ABE, TLA, KMb, ALT, AMV, &c, it will be, AB:AE::KT:Sa (=\frac{1}{2}LV+\frac{1}{2}LS)::LT:Ta (=\frac{1}{2}MV+\frac{1}{2}KS)) and AB:BE::LT:La (=\frac{1}{2}LS-\frac{1}{2}LV)::KT (=\frac{1}{2}MN):\frac{1}{2}Mb (=\frac{1}{2}MV-\frac{1}{2}KS)) Hence are given the sines and cosines SE, MEV, LS, LV. And the method of continuing the progressions is evident. Namely,

And on the other hand, AB: 2AB:: LS: KT + KR, &c.

Therefore put AB=1, and make BRXLT=LB, ABXKT=SB, SR-LB=LV, 2AB X LV-TM=MX, &c.

The sense of these general theorems is this, that if P be any one

among a series of angles in arithmetical progression, the angle d being their common difference, then as radius or

1:  $2 \cos d$ ::  $\begin{cases}
\cos P : \cos P + d + \cos P - d \\
\sin P : \sin P + d + \sin P - d
\end{cases}$ 1:  $2 \sin d$ ::  $\begin{cases}
\cos P : \sin P + d + \sin P - d \\
\sin P : \sin P + d - \sin P - d
\end{cases}$   $\begin{cases}
\cos P : \cos P + d + \cos P - d \\
\sin P : \sin P + d - \cos P - d
\end{cases}$ 

where the 4th terms of these proportions are the sums or differences of the sines of cosines of the two angles next less and greater than any angle P in the series; and therefore subtracting the less extreme from the sum, or adding it to the difference, the result will be the greater extreme, or the next sine or cosine beyond that of the term P. And in the same manner are all the rest to be found. This method, it is evident, is equally applicable whether the common difference d, or angle A, be equal to one term of the series or not: when it is one of the terms, then the whole series of sines and cosines becomes thus, viz, as  $1:2\cos d:$ 

sin. d: sin. 2d :: sin. 2d: sin. d | sin. 3d:: sin. 3d: sin. 2d | sin. 4d:: sin. 4d: sin. 3d | sin. 5d &c. cos. d: 1 | cos. 2d:: cos. 2d: cos. d | cos. 3d:: cos. 3d: cos. 2d-| cos. 4d:: cos. 4d: cos. 3d | cos. 5d &c.

which is the very method contained in the directions given by Abraham Sharp, for constructing the canon of sines.

Sir I. Newton remarks, that it only remains to find the sine and cosine of a first angle A, by some other method; and for this purpose, he directs us to make use of some of his own infinite series: thus, by them will be found 1.57079 &c for the quadrantal arc, the square of which is 2.4694 &c; divide this square by the square of the number expressing the ratio of 90 degrees to the angle A, calling the quotient

z; then 3 or 4 terms of this series  $1 - \frac{z}{2} + \frac{z^2}{24} - \frac{z^3}{720} + \frac{z^4}{40320}$  &c,

will give the cosine of that angle A. Thus we may first find an angle of 5 degrees, and thence the table may be computed to the series of every 5 degrees, then these interpolated to degrees or half degrees by the same method, and these interpolated again; and so on as far as necessary. But two-thirds of the table being computed in this manner, the remaining third will be found by addition or subtraction only, as is well known.

Various other improvements in logarithms and trigonometry are owing to the same excellent personage; such as the series for expressing the relation between circular arcs and their sines, cosines, versed sines, tangents, &c; namely, the arc being a, the sine s, the versed sine v, cosine c, tangent t, radius 1, then is

 $a = s + \frac{1}{6}s^{3} + \frac{1}{4c}s^{5} + \frac{1}{715}s^{7} + \frac{1}{715}z^{5} +$ 

### Of Dr. Halley's Method.

Many other improvements in the construction of logarithms are also derived from the same doctrine of fluxions, as we shall show hereafter. In the mean time proceed we to the ingenious method of the learned Dr. Edmund Halley, Secretary to the Royal Society, and the second Astronomer Royal, having succeeded Mr. Flamsteed in that honourable office in the year 1719, at the Royal Observatory at Greenwich, where he died the 14th of January 1742, in the 86th year of his age. His method was first printed in the Philosophical Transactions for the year 1695, and is entitled "A most compendious and facile method for constructing the logarithms, exemplified and demonstrated from the nature of numbers, without any regard to the hyperbola, with a speedy method for finding the number from the

given logarithm."

Instead of the more ordinary definition of logarithms, as numerorum proportionalium aquidifferentes comiles, in this tract our learned author adopts this other, numeri rationem exponentes, as being better adapted to the principle on which Logarithms are here constructed, where those quantities are not considered as the logarithms of the numbers, for example, of 2, or of 3, or of 10, but as the logarithms of the ratice of 1 to 2, or 1 to 3, or 1 to 10. In this consideration he first pursues the idea of Kepler and Mercator, remarking that any such ntio is proportional to, and is measured by, the number of equal ratiunculæ contained in each; which ratiunculæ are to be understood in a continued scale of proportionals, infinite in number, between the two terms of the ratio; which infinite number of mean proportionals is to that infinite number of the like and equal rationculæ between any other two terms, as the logarithm of the one ratio is to the logarithm of the other: thus, if there be supposed between 1 and 10 an infinite scale of mean proportionals, whose number is 100000 &c in infinitum; then between 1 and 2 there will be 30102 &c of such proportionals; and between 1 and 3 there will be 47712 &c of them; which numbers therefore are the logarithms of the ratios of 1 to 10, 1 to 2, and 1 to 3. But for the sake of his mode of constructing logarithms, he changes this idea of equal rationculæ, for that of other rationculæ, so constituted, as that the same infinite number of them shall be contained in the ratio of 1 to every other number whatever; and that therefore these latter rationculæ will be of unequal or different magnitudes in all the different ratios, and in such sort, that in any one ratio, the magnitude of each of the ratiunculæ in this latter case, will be as the number of them in the former. And therefore if between 1 and any number proposed, there be taken any infinity of mean proportionals, the infinitely small augment or decrement of the first of those means from the first term 1, will be a ratiuncula of the ratio of 1 to the said number; and as the numbers of all the ratiunculæ in these continued proportionals is the same,

their sum, or the whole ratio, will be directly proportional to the magnitude of one of the said rationcules in each ratio. But it is also evident that the first of any number of means, between 1 and any number, is always equal to such root of that number, whose index is expressed by the number of those proportionals from 1; so if m denote the number of proportionals from 1, then the first term after 1 will be the mth root of that number. Hence the indefinite root of any number being extracted, the differentials of the said root from unity, shall be as the logarithm of that number. So if there be required the logarithm of the ratio of 1 to 1 + q; the first term after 1 will be  $(1+q)^m$ , and therefore the required logarithm will be as  $(1+q)^m-1$ . But,  $(1+q)^{\frac{1}{m}}$  is  $=1+\frac{1}{m}q+\frac{1}{m}\cdot\frac{1-m}{2m}q^2+\frac{1}{m}\cdot\frac{1-m}{2m}\cdot\frac{1-2m}{3m}q^3$  &c; or by omitting the I in the compound numerators, as infinitely small in respect of the infinite number m, the same series will become  $1 + \frac{1}{m}q + \frac{1}{m} \cdot \frac{-m}{2m}q^2 + \frac{1}{m} \cdot \frac{-m}{2m} \cdot \frac{-2m}{3m}q^3$  &c, or by abbreviation it is  $1 + \frac{1}{m}q - \frac{1}{2m}q^4 + \frac{1}{3m}q^3 - \frac{1}{4m}q^4$  &c. and hence, finding the differentiala by subtracting 1, the logarithm of the ratio of 1 to 1+7 is as  $\frac{1}{m} \times (q - \frac{1}{2}q^2 + \frac{1}{3}q^3 - \frac{1}{4}q^4 + \frac{1}{5}q^5 - \frac{1}{6}q^6$  &c.) Now the index so may be taken equal to any infinite number, and thus all the varieties of scales of logarithms may be produced: so if m be taken 1000000 &c, the theorem will give Napier's logarithms; but if m be taken equal to 230258 &c, there will arise Briggs's logarithms.

This theorem being for the increasing ratio of 1 to 1 + q; if that for the decreasing ratio of 1 to 1 - q be also sought, it will be obtained by a proper change of the signs, by which the decrement of the first of the infinite number of proportionals will be found to be  $\frac{1}{m}$  into  $q + \frac{1}{2}q^2 + \frac{1}{4}q^3 + \frac{1}{4}q^4$  &c, which therefore is as the logarithm of the ratio of 1 to 1 - q.

Hence the terms of any ratio being a and b, q becomes  $\frac{b-a}{a}$ , or the difference divided by the less term, when it is an increasing ratio; or  $q = \frac{b-a}{b}$  when the ratio is decreasing or as b to a. Therefore the logarithm of the same ratio may be doubly expressed; for putting x for the difference b-a of the terms, it will be

for the difference 
$$b-a$$
 of the terms, it will be either  $\frac{1}{m}$  into  $\frac{x}{a} - \frac{x^2}{2a^2} + \frac{x^3}{3a^3} - \frac{x^4}{4a^4} &c.$  or  $\frac{1}{m}$  into  $\frac{x}{b} + \frac{x^3}{2b^2} + \frac{x^3}{3b^3} + \frac{x^4}{4b^4} &c.$ 

But if the ratio of a to b be supposed divided into two parts, namely,

into the ratio of a to a to a to a to a and the ratio of a to a to a the logarithms of those two ratios, be the logarithms of the ratio of a to a. Now by substituting in the foregoing series, the logarithms of those two ratios will

be 
$$\frac{1}{m}$$
 into  $\frac{x}{s} + \frac{x^3}{2s^2} + \frac{x^3}{3s^3} + \frac{x^4}{4z^4} + \frac{x^5}{5s^5}$  &c.  
and  $\frac{1}{m}$  into  $\frac{x}{s} - \frac{x^3}{2x^3} + \frac{x^3}{3z^3} - \frac{x^4}{4z^4} + \frac{x^5}{5s^5}$  &c and hence the sum, or  $\frac{1}{st}$  into  $\frac{2x}{s} + \frac{2x^3}{3z^3} + \frac{2x^5}{5s^5} + \frac{2x^7}{7z^7} + \frac{2x^9}{9s^9}$  &c.

will be the log. of the ratio of a to b.

Moreover, if from the logarithm of the ratio of a to z be taken that of z to z, we shall have the logarithm of the ratio of z to z; and the half of this gives that of z to z, or of the geometrical mean to the arithmetical mean. And consequently the logarithm of this ratio will be equal to half the difference of that of the above two

ratios, and will therefore be 
$$\frac{1}{m}$$
 into  $\frac{x^2}{2z^2} + \frac{x^4}{4z^4} + \frac{x^6}{6z^6} + \frac{x^8}{8z^8}$  &c.

The above series are similar to some that were before given by Newton and Gregory, for the same purpose, deduced from the consideration of the hyperbola. But the rule which is properly our authors own is that which follows, and is derived from the series above given for the logarithm of the sum of two ratios. For the ratio of ab to  $\frac{1}{4}z^2$  or  $\frac{1}{4}a^2 + \frac{1}{4}ab + \frac{1}{4}b^2$ , having the difference of its terms  $\frac{1}{4}a^2 - \frac{1}{4}ab + \frac{1}{4}b^2$  or  $(\frac{1}{4}b - \frac{1}{4}a)^2$  or  $\frac{1}{4}x^2$ , which in the case of finding the logarithms of prime numbers is always 1, if we call the sum of the terms  $\frac{1}{4}z^2 + ab = y^2$ , the logarithm of the ratio of  $\sqrt{ab}$  to  $\frac{1}{4}a + \frac{1}{4}b$  or  $\frac{1}{4}z$  will be found to be

$$\frac{1}{m} \text{ into } \frac{1}{y^2} + \frac{1}{3y^6} + \frac{1}{5y^{10}} + \frac{1}{7y^{14}} + \frac{1}{9y^{18}} \&c.$$

And these rules our learned author exemplifies by some cases in numbers, to show the easiest mode of application in practice.

Again, by means of the same binomial theorem he resolves with equal facility the reverse of the problem, namely, from the logarithm given, to find its number or ratio: For, as the logarithm of the

ratio of 1 to 1 + q was proved to be  $(1 + q)^m - 1$ , and that of the ratio of 1 to 1 - q to be  $\cdots 1 - (1 - q)^m$ ; hence, calling the given logarithm L, in the former

case it will be  $(1+q)^{\frac{1}{m}} = 1 + L$ , and in the latter  $(1-q)^{m} = 1 - L$ ; and therefore  $1+q = (1+L)^{m}$ 

and therefore  $1 + q = (1 + L)^m$  and  $1 - q = (1 - L)^m$ , that is, by the binomial theorem,

of logarithms, being 1000 &c in Napier's or the hyperbolic logarithms, and 2302585 &c in Briggs's.

If one term of the ratio, of which L is the logarithm, be given, the other term will be easily obtained by the same rule: For if L be Na-

pier's logarithm of the ratio of a the less term, to b the greater, then, according as a or b is given, we shall have,

$$b = a \text{ into } 1 + L + \frac{1}{2}L^{2} + \frac{1}{6}L^{3} + \frac{7}{34}L^{4} &c.$$

$$a = b \text{ into } 1 - L + \frac{7}{4}L^{2} - \frac{1}{6}L^{3} + \frac{7}{24}L^{4} &c.$$

Hence, by help of the logarithms contained in the tables, may easily be found the number to any given logarithm to a great extent. if the small difference between the given logarithm L, and the nearest tabular logarithm, either greater or less, be called *l*, and the number answering to the tabular logarithm *a*, when it is less than the given logarithm, but *b* when greater; it will follow, that the number answering to the logarithm L, will be

either a into 
$$1 + l + \frac{1}{2}l^2 + \frac{1}{6}l^2 + \frac{1}{24}l^3 + \frac{1}{240}l^3$$
, &c. or b into  $1 - l + \frac{1}{2}l^2 - \frac{1}{2}l^2 + \frac{1}{24}l^4 - \frac{1}{120}l^5$ , &c.

which series converge so quick, I being always very small, that the first two terms 1 ± 1 are generally sufficient to find the number to 10 places of figures.

Dr. Halley subjoins also an easy approximation for these series, by which it appears, that the number answering to the log. is nearly  $\frac{1+\frac{1}{4}l}{1-\frac{1}{4}l} \times a \text{ or } \frac{1-\frac{1}{4}l}{1+\frac{1}{4}l} \times b \begin{cases} \text{in Napier's } \\ \text{logs, and } \end{cases} \frac{n+\frac{1}{4}l}{n-\frac{1}{4}l} \times a \text{ or } \frac{n-\frac{1}{4}l}{n+\frac{1}{4}l} \times b \begin{cases} \text{in Briggs's } \\ \text{logs.}; \end{cases}$ where n is = 434294481903 &c  $= \frac{1}{m}$ .

#### Of Mr. Sharp's Methods.

The labours of Mr. Abraham Sharp, of Little Horton, near Bradford in Yorkshire, in this branch of mathematics, were very great and meritorious. His merit however consisted rather in the improvement and illustration of the methods of former writers, than in the invention of any new ones of his own. In this way he greatly extended and improved Dr. Halley's method, above described, as also those of Mercator and Wallis; illustrating these improvements by extensive calculations, and by them computing table 5 of this book, consisting of the logarithms of all numbers to 100, and of all prime numbers to 1100, each to 61 places. He also composed a neat compendium of the best methods for computing the natural sines, tangents, and secants, chiefly from the rules before given by Newton; and by Newton's or Gregory's series  $a = t - tt^2 + \frac{1}{2}t^2 - \frac{1}{2}t^2$  &c, for the arc in terms of the tangent, he computed the circumference of the circle to 72 places, namely from the arc of 30 degrees, whose tangent t is = √ i to the radius 1. Other astonishing instances of his industry and

A. S. Philomath, from whence the 5th table of logarithms above-mentioned was extracted. This ingenious man was some time assistant at the Royal Observatory to Mr. Flamsteed the first Astronomer Royal; and being one of the most accurate and indefatigable computers that ever existed, he was for many years the common resource for Mr. Flamsteed, Sir Jonas Moore, Dr. Halley, &c., in all intricate and troublesome calculations. He afterwards retired to his native place at Little Horton; where, after a life spent in intense study and calculations, he died the 18th of July 1742, in the 91st year of his age.

### Of the Construction of Logarithms by Fluxions.

It appears by the very definition and description given by Napier of his logarithms, as stated in page 42 of this Introduction, that the fluxion of his, or the hyperbolic logarithm, of any number, is a fourth proportional to that number, its logarithm, and unity; or, which is the same, that it is equal to the fluxion of the number divided by the number: For the description shows that z1:za or 1::z1 the fluxion of z1: za, which therefore is  $=\frac{z_1}{z_1}$ ; but za is also equal to the fusion of the logarithm A &c, by the description; therefore the fluxion of the logarithm is equal to  $\frac{x_1}{x_1}$ , the fluxion of the quantity divided by the quantity itself. The same thing appears again at art. 2 of that little piece in the appendix to his Constructio Logarithmorum, entitled Habitudines Logarithmorum & suorum naturalium numerorum incicem, where he observes that, as any greater quantity is to a less, so is the velocity of the increment or decrement of the logarithms at the place of the less quantity, to that at the greater. Now this velocity of the increment or decrement of the logarithms being the same thing as their fluxions, that proportion is this, x:a:: flux. log. a: flux. log. x; hence if a be = 1, as at the beginning of the table of numbers, where the fluxion of the logs. is the index or characteristic c, which is also 1 in Napier's or the hyperbolic logarithms, and 43429 &c in Briggs's the same proportion becomes x:1::c: flux. log. x; but the constant fluxion of the numbers is also 1, and therefore that proportion is also this,  $x: x: c: \frac{cx}{x} =$  the fluxion of the

logarithm of x; and in the hyperbolic logarithms, where c is = 1, it becomes  $\frac{x}{x}$  = the fluxion of Napier's or the hyperbolic logarithm of x. This same property has also been noticed by many other authors since Napier's time. And the same or a similar property is evidently true in all the systems of logarithms whatever, namely, that the modulus of the system is to any number, as the fluxion of its logarithm is to the fluxion of the number.

Now from this property, by means of the doctrine of fluxions, are derived other ways for making logarithms, which have been illustrated by many writers on this branch, as Craig, John Bernouilli, and almost all the writers on fluxions. And this method chiefly consists in expanding the reciprocal of the given quantity in an infinite series, then multiplying each term by the fluxion of the said quantity, and lastly taking the fluents of the terms; by which there arises an infinite series of terms for the logarithm sought. So, to find the logarithm of any number n; put any compound quantity n+x

for N, as suppose 
$$\frac{n+x}{n}$$

then the flux. of the log. or 
$$\frac{N}{N}$$
 being  $\frac{x}{n+x} = \frac{x}{n} - \frac{xx}{nn} + \frac{x^2x}{n^3} - \frac{x^3x}{n^4}$  &c, the fluents give log. of N or log. of  $\frac{n+x}{n} = \frac{x}{n} - \frac{x^2}{2n^3} + \frac{x^3}{3n^3} - \frac{x^4}{4n^4}$  &c. And writing—x for x gives  $\log \frac{n-x}{n} = -\frac{x}{n} - \frac{x^2}{2n^4} - \frac{x^3}{3n^3} - \frac{x^4}{4n^4}$  &c. Also, because  $\frac{n}{n+x} = 1 \div \frac{n+x}{n}$ , or  $\log \frac{n}{n+x} = 0 - \log \frac{n+x}{n}$ , theref.  $\log \frac{n}{n+x} = -\frac{x}{n} + \frac{x^2}{2n^2} - \frac{x^3}{3n^3} + \frac{x^4}{4n^4}$  &c. and  $\log \frac{n}{n+x} = +\frac{x}{n} + \frac{x^2}{2n^2} + \frac{x^3}{3n^3} + \frac{x^4}{4n^4}$  &c.

And by adding and subtracting any of these series, to or from one another, and multiplying or dividing their corresponding numbers, various other series for logarithms may be found, converging much quicker than these do.

In like manner by assuming quantities otherwise compounded for the value of N, various other forms of logarithmic series may be found by the same means.

## Of Mr. Cotes's Logometria.

Mr. Roger Cotes was elected the first Plumian professor of astronomy and experimental philosophy in the university of Cambridge, January 1706, which appointment he filled with the greatest credit, till he died the 5th of June 1716, in the prime of life, having not quite completed the 34th year of his age. His early death was a great loss to the mathematical world, as his genius and abilities were of the brightest order, as is manifested by the specimens of his performance given to the public. Among these are his Logometria, first printed in number 338 of the Philosophical Transactions, and afterwards in his Harmonia Mensuarum, published in 1722 with his other works, by his relation and successor in the Plumian professorship, Dr. Robert Smith. In this piece he first treats in a general way of

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•measures of ratios, which measures, he observes, are quantities of any kind whose magnitudes are analogous to the magnitudes of the ratios, these magnitudes mutually increasing and decreasing together in the same proportion. He remarks, that the ratio of equality has no magnitude, because it produces no change by adding and subtracting; that the ratios of greater and less inequality, are of different affections; and therefore if the measure of the one of these be considered as positive, that of the other will be negative; and the measure of the ratio of equality nothing: That there are endless systems of these, which have all their measures of the same ratios proportional to certain given quantities, called moduli, which he defines afterwards, and the ratio of which they are the measures, each in its peculiar system, is called the modular ratio, ratio modularis, which ratio is the same in all systems. He then adverts to logarithms, which he considers as the numerical measures of ratios, and he describes the method of arranging them in tables, with their uses in multiplication and division, raising of powers and extracting of roots, by means of the corresponding operations of addition and subtraction, multiplication and division.

After this introduction, which is only a slight abridgment of the doctrine long before very amply treated of by others, and particularly by Kepler and Mercator, we arrive at the first proposition, which has justly been censured as obscure and imperfect, seemingly through an affectation of brevity, intricacy, and originality, without sufficient room for a display of this qualification. The reasoning in this proposition, such as it is, seems to be something between that of Kepler and the principles of fluxions, to which the quantities and expressions are nearly allied. However, as it is my duty rather to narrate than explain, I shall here exhibit it exactly as it stands. This proposition is to determine the measure of any ratio, as for instance that of AC to AB, and which is effected in this manner: Conceive the difference Bc to be divided into innumerable very small particles, as PQ, and A the ratio between AC and AB into as many such very small ratios, as between AQ and AP: then if the magnitude of the ratio between AQ and AP be given, by dividing there will also be given, that of PQ to AP; and therefore, this being given, the magnitude of the ratio between AQ and AP may be expounded by the given quantity  $\frac{PQ}{AB}$ ; for AP remaining constant, conceive the particle PQ to be augmented or diminished in any proportion, and in the same proportion will the magnitude of the ratio between AQ and AP be augmented or diminished: Also, taking any determinate quantity M, the same may be expounded by  $M \times \frac{PQ}{AP}$ ; and therefore the quantity  $M \times \frac{PQ}{AP}$  will be the measure of the ratio between AQ and AP. And this measure will have divers magnitudes, and be accommodated to divers systems, according to the divers magnitudes of the assumed quantity M, which therefore is called the modulus of the system. Now, like as the sum of all the ratios AQ to AP is equal to the proposed ratio AC to AB, so the sum of all the measures  $M \times \frac{PQ}{AP}$ , found by the known methods,

will be equal to the required measure of the said proposed ratio.

The general solution being thus dispatched, from the general expression, Cotes next deduces other forms of the measure, in several corollaries and scholia: as 1st, the terms AP, AQ, approach the nearer to equality as the small difference PQ is less; so that either  $M \times \frac{PQ}{AP}$  or  $M \times \frac{PQ}{AQ}$  will be the measure of the ratio between AQand AP, to the modulus M. 2d, That hence the modulus M is to the measure of the ratio between AQ and AP, as either AP or AQ is to their difference PQ. 3d, The ratio between Ac and AB being given, the sum of all the  $\frac{PQ}{AP}$  will be given; and the sum of all the

 $M \times \frac{PQ}{AP}$  is as M: therefore the measure of any given ratio, is as the modulus of the system from which it is taken. 4th, Therefore, in every system of measures, the modulus will always be equal to the measure of a certain determinate and immutable ratio; which therefore he calls the modular ratio. 5th, To illustrate the solution by an example: let z be any determinate and permanent quantity, x a variable or indeterminate quantity, and x its fluxion; then, to find the measure of the ratio between z+x and z-x, put this ratio equal to the ratio between y and 1, expounding the number y by AP, its fluxion j by PQ, and I by AB: then the fluxion of the required

measure of the ratio between y and 1 is  $M \times \frac{y}{z}$ . Now, for y, restore its val.  $\frac{z+x}{z-x}$ , and for y the flux. of that value,  $\frac{2zx}{(z-x)^2}$ , so shall the flux. of

the measure become 2 M  $\times \frac{z_2}{zz - xx}$ , or 2 M into  $\frac{x}{z} + \frac{xx^2}{z^3} + \frac{xx^4}{z^5}$  &c.

and therefore that measure will be 2M into  $\frac{x}{z} + \frac{x^3}{2z^3} + \frac{x^5}{5z^5} &c.$ 

In like manner the measure of the ratio between 1 + v and 1 will be found to be - - - - M into  $v - \frac{1}{2}v^2 + \frac{1}{3}v^3 - \frac{1}{4}v^4$  &c. And hence, to find the number from the logarithm given, he reverts the series in this manner: If the last measure be called m, we

shall have 
$$\frac{m}{M}$$
 or  $Q = v - \frac{1}{2}v^2 + \frac{1}{3}v^3 - \frac{1}{4}v^4 + \frac{1}{5}v^5$  &c,  
therefore  $Q^2 = -v^2 - v^3 + \frac{1}{14}v^4 - \frac{5}{8}v^5$  &c,  
and  $Q^3 = --v^3 - \frac{3}{2}v^4 + \frac{7}{4}v^5$  &c,  
and  $Q^4 = ---v^4 - 2v^5$  &c,  
and  $Q^5 = ----v^5$  &c

then, by adding continually, we shall have,

$$a + \frac{1}{2}a^{2} = v - \frac{1}{6}v^{3} + \frac{5}{24}v^{4} - \frac{1}{68}v^{5} &c,$$

$$a + \frac{1}{2}a^{2} + \frac{1}{6}a^{3} = v - \frac{1}{24}v^{4} + \frac{3}{46}v^{5} &c,$$

$$a + \frac{1}{2}a^{2} + \frac{1}{6}a^{3} + \frac{1}{24}a^{4} = v - \frac{1}{126}v^{5} &c,$$

$$a + \frac{1}{2}a^{2} + \frac{1}{6}a^{3} + \frac{1}{24}a^{4} + \frac{1}{126}a^{5} = v &c,$$
that is  $v = a + \frac{1}{2}a^{2} + \frac{1}{6}a^{3} + \frac{1}{24}a^{4} + \frac{1}{126}a^{5} &c.$  And therefore

that is  $v = a + \frac{1}{2}a^2 + \frac{1}{6}a^3 + \frac{1}{24}a^4 + \frac{1}{125}a^5$  &c. And therefore the required ratio of 1 + v to 1, is equal to the ratio of  $1 + q + \frac{1}{4}q^2$  &c to 1. Put now m = M, or q = 1, and the above will become the ratio of  $1 + \frac{1}{4} + \frac{1}{4} + \frac{1}{6} + \frac{1}{24} + \frac{1}{125}$  &c to 1, for the constant modular ratio. In like manner, if the ratio between 1 and 1-v be proposed, the measure of this ratio will come out M into

$$v + \frac{1}{2}v^2 + \frac{1}{3}v^3 + \frac{1}{4}v^4$$
 &c which being called m, and  $\frac{m}{M} = Q$ ,

that ratio will be the ratio of 1 to  $1 - Q + \frac{1}{2}Q^2 - \frac{1}{6}Q^3 + \frac{1}{24}Q^4$  &c. And hence, taking m = M, or Q = 1, the said modular ratio will also be the ratio of 1 to  $1 - \frac{1}{4} + \frac{1}{2} - \frac{1}{6} + \frac{1}{24} - \frac{1}{120}$  &c. And the former of these expressions, for the modular ratio, comes out the ratio of 2,718281828459 &c to 1, and the latter the ratio of 1 to 0,367879441171 &c, which number is the reciprocal of the former.

In the 2d prop. the learned author gives directions for constructing Briggs's canon of logarithms, namely, first by the general series 2 m into  $\frac{x}{z} + \frac{x^3}{3z^3} + \frac{x^5}{5z^5}$  &c, finding the logarithms of a few such ratios as that of 126 to 125, 225 to 224, 2401 to 2400, 4375 to 4374, &c. from whence the logarithm of 10 will be found to be 2302585092994 &c, when m is 1; but since Briggs's log. of 10 is 1, therefore as 2,302585 &c is to the modulus 1, so is 1 (Briggs's log. of 10) to 0,434294481903 &c, which therefore is the modulus of Briggs's logarithms. Hence he deduces the logarithms of 7, 5, 3, and 2. In like manner are the logarithms of other prime numbers to be found, and from them the logarithms of composite numbers by addition and subtraction only.

Cotes then remarks, that the first term of the general series 2 m into  $\frac{x}{z} + \frac{x^3}{3z^3} + \frac{x^5}{5z^5}$  &c, will be sufficient for the logarithms of interme-

diate numbers between those in the table, or even for n inters beyond the limits of the table. Thus, to find the logarithm ering to an intermediate number; let a and e be two numbers, the one the given number, and the other the nearest tabular number, a being the greater, and e the less of them; put z = a + e their sum, x = a - e their difference,  $\lambda =$  the logarithm of the ratio of a to e, that is the excess of the logarithm of a above that of e: so shall the

said difference of their logarithms be  $\lambda = 2 \text{ M} \times \frac{x}{z}$  very nearly.

And, if there he required the number answering to any given intermediate logarithm, because  $\lambda$  is  $\equiv$ 

$$\frac{2Mx}{z} = \frac{2Mx}{2a-} \text{ or } \frac{2Mx}{2e+x}, \text{ therefore } x = \frac{\lambda a}{M+\frac{1}{2}\lambda} \text{ or } \frac{\lambda e}{M-\frac{1}{2}\lambda} \text{ very nearly.}$$

In the 3d prop. the ingenious author teaches how to convert the canon of logarithms into logarithms of any other system, by means of their moduli. And, in several more propositions, he exemplifies the canon of logarithms in the solution of various important problems in geometry and physics; such as the quadrature of the hyperbola, the description of the logistica, the equi-angular spiral, the nautical meridian, &c; the descent of bodies in resisting mediums, the density of the atmosphere at any altitude, &c, &c.

### Of Dr. Taylor's Construction of Logarithms.

Dr. Brook Taylor (a very learned mathematician, and secretary to the Royal Society, who died at Somerset-house, Nov. 1731) gave the following method of constructing logarithms, in number 352 of the Philosophical Transactions. His method is founded on these three considerations: 1st, that the sum of the logarithms of any two numbers is the logarithm of the product of those numbers; 2d, that the logarithm of 1 is nothing, and consequently that the nearer any number is to 1, the nearer will its logarithm be to 0; 3d, that the product of two numbers or factors, of which the one is greater, and the other less than 1, is nearer to 1 than that factor is which is on the same side of 1 with itself; so of the two numbers 3 and 4, the product so is less than 1, but yet nearer to it than so, which is also less than 1. On these principles he founds the present approximation, which he explains by the following example. relation between the logarithms of 2 and 10: In order to this, he assumes two fractions, as  $\frac{128}{100}$  and  $\frac{8}{10}$ , or  $\frac{2^7}{10^2}$  and  $\frac{2^3}{10}$ , whose numerators are powers of 2, and their denominators powers of 10, the one fraction being greater and the other less than unity or 1. Having set these two down, in the form of decimal fractions, below each other, in the first column of the following table, and in the second column A and B for their logarithms, expressing by an equation how

1,2800000000000	$\gamma = \cdot \cdot$	=	712—	2/10	1270,28
<b>0,80000000000</b> 000	v = .		312 —	<i>l</i> 10	∠0,33
1,02400000000	c = A +	B =	1012 —	3 <i>l</i> 10	<b>7</b> 0,300
0,990352031429	p = B +	9c =	93 <i>l</i> 2-	28/10	∠0,30107
1,004336277664	E = C +	2v =	169/2 —	59/10	<b>7</b> 0,3010 <b>20</b>
0,998959536107	F = D +	2e =	485 <i>l</i> 2 —	146/10	∠0,30 <b>10309</b>
1,000162894165	G = E +	4r =	213 <b>6l2</b> —	643/10	<b>7</b> 0,3010299 <b>6</b>
0,999936281874	H = r +	6G ==	13301 <i>l</i> 2 —	4004/10	∠0,301 <b>0</b> 29 <b>997</b>
1,000035441215	$ \iota  = e +$	2H =	28 <b>7</b> 38 <i>l</i> 2 —	8651/10	<b>70,3010299951</b>
0,999971720830	$N\kappa = H +$	1 =	42Q39 <i>l</i> 2 —	12655 <i>l</i> 10	∠0,3010 <b>29</b> 99 <b>59</b>
1,000007161046	$\beta L = I +$	к =	7077712 —	<b>21306</b> <i>l</i> 10	70,301029 <b>99562</b>
0.99999353514	y = k +	3L =	254370 <i>l</i> 2 —	76573/10	∠0,301029995 <b>67</b>
1,000000364511	N = L +	M =	32514712-	97879110	フ0,301029 <b>9</b> 956635
0,999999764687	o = m +	א 18 א	5107016 <i>l</i> 2 – 1	838 <b>3</b> 35 <i>l</i> 10	∠0,301029 <b>995664</b> 0
comp ar 235313	7				
9=3645110 +26	35313V = 2	30258582	5187/2 — 693147	7400972/10	70,3010299956639

they are composed of the logarithms of 2 and 10, the numbers in question, those logarithms being denoted thus, 12 and 110. Then multiplying the two numbers in the first column together, there is produced a third number 1,024, against which is written c, for its logarithm, expressing likewise by an equation in what manner c is formed of the foregoing logarithms A and B. And in the same manner the calculation is continued throughout; only observing this compendium, that before multiplying the two last numbers already entered in the table, to consider what power of one of them must be used to bring the product the nearest that can be to unity. Now after having continued the table a little way, this is found by only dividing the differences of the numbers from unity one by the other, and taking the nearest quotient for the index of the power sought. Thus the second and third numbers in the table being 0,8 and 1,024, their differences from unity are 0,200 and 0,024; hence 0,200÷ 0,024 gives 9 for the index; and therefore multiplying the 9th power of 1,024 by 0,3 produces the next number 0,990352031429, whose logarithm is D=B+9c.

When the calculation is continued in this manner till the numbers become small enough, or near enough to 1, the last logarithm is supposed equal to nothing, which gives an equation expressing the relation of the logarithms, and from thence the required logarithm is determined. Thus, supposing G=0, we have

2136l2-643l10=0, and hence, because the logarithm of 10 is 1, we obtain  $l2=\frac{643}{2136}=0,30102996$ , too small in the last figure only; which so happens, because the number corresponding to G is greater than 1. And in this manner are all the numbers in the third

or last column obtained, which are continual approximations to the

logarithm of 2.

There is another expedient, which renders this calculation still shorter, and it is founded on this consideration: that when x is small,  $(1+x)^n$  is nearly =1+nx. Hence if 1+x and 1-z be the two last numbers already found in the first column of the table, the product of their powers  $(1+x)^m \times (1-z)^n$  will be nearly =1; and hence the relation of m and n may be thus found,  $(1+x)^m \times (1-z)^n$  is nearly  $=(1+mx)\times (1-nz)=1+mx-nz-mnxz=1+mx-nz$  nearly, which being also =1 nearly, therefore m:n::z:x:: l(1-z):l(1+x); whence xl.(1-z)+zl.(1+x)=0. For example, let 1,024 and 0,990352 be the last numbers in the table, their logarithms being c and d: here we have 1,024=1+x, and 0,990352=1-z; consequently, x=0,024, and z=0,009648, and hence the ratio  $\frac{z}{x}$  in small numbers is  $\frac{201}{500}$ . So that, for finding the logarithms proposed, we may take 500d+201c=48510l2-14603l10

=0; which gives 12=0,3010307. And in this manner are found the numbers in the last line of the table.

### Of Mr. Long's Method.

In number 339 of the Philosophical Transactions, are given a brief table and method for finding the logarithm to any number, and the number to any logarithm, by Mr. John Long, B.D. Fellow of C. C. Oxon. This table and method are similar to those described in chap. 14, of Briggs's Arith. Logar. differing only in this, that in this table, by Mr. Long, the logarithms, in each class, are in arithmetical progression, the common difference being 1; but in Briggs's little table, the column of natural numbers has the like common difference. The table consists of eight classes of logarithms, and their corresponding numbers, as follow:

La	Nat. Numb.	Log.	Nat. Numb.	Log.	Nat. Numb.	Log.	Nac. Numb.
,9	7,9432323474	,009	1,020939454	,00009	1,000207254	,0000009	1,000002072
,8	6,809573445	8	1,018591388	8	1,000184224	8	.,000001842
,7	5,011872336	7	1,016245694	7	1,000161194	7	1,000001611
,6	3,981071706	6	1,013911356	6	1,000135165	6	1,000001381
,5	3,162277660	5	1,011579454	5	1,000115136	5	1,000001151
,4	2,511856432	4	1,009252896	4	1,000092106	4	1,000000921
3ئو	1,995262315	3	1,006931669	3	1,000069080	3	1,000000690
,9	1,564893193	2	1,004615794	2	1,000046053	2	1,000000460
,1	1,258925412	1	1,002305236	1	1,000023026	j 1	1.000000230
,09	1,230265771	,0009	1,002074475	,000009	1,000020724	,00000009	1,000000207
S	1,202264435	8	1,001543766	8	1,000018421	5	1,000000184
7	1,174897555	7	1,001613109	7	1,000016118	7	1,000000161
6	1,148153621	6	1,001352506	6	1,000013916	6	1,000000138
5	1,122018454	5	1,001151956	5	1.000011513	5	1,000000115
4	1,096478196	4	1,000921459	4	1,000009210	4	1,000000092
3	1,071519305	3	1,000691015	3	1,000006905	3	1,000000069
2	1,047128548	2	1,000460623	Ç	1,000004605	2	1,000000046
1	1,023292992	1	1,000230255	1	1,000002302	] ]	1,000000023

where, because the logarithms in each class are the continual multiples 1, 2, 3, &c. of the lowest, it is evident that the natural numbers are so many scales of geometrical proportionals, the lowest being the common ratio, or the ascending numbers are the 1, 2, 3, &c, powers of the lowest, as expressed by the figures 1, 2, 3, &c, of their corresponding logarithms. Also the last number in the first, second, third, &c, class, is the 10th, 100th, 1000th, &c, root of 10; and any number in any class is the 10th power of the corresponding number in the next following class.

To find the logarithm of any number, as suppose of 2000, by this table, look in the first class for the number next less than the first figure 2, and it is 1,995262315, against which is 3 for the first figure of the logarithm sought. Again, dividing 2, the number

proposed, by 1,995262315, the number found in the table, the quotient is 1,002374467; which being looked for in the second class of the table, and finding neither its equal nor a less, 0 is therefore to be taken for the second figure of the logarithm; and the same quotient 1,002374467 being looked for in the third class, the next less is there found to be 1,002305238, against which is 1 for the third figure of the logarithm; and dividing the quotient 1,002374467 by the said next less number 1,002305238, the new quotient is 1,000069070; which being sought in the fourth class gives 0, but sought in the fifth class gives 2, which are the fourth and fifth figures of the logarithm sought: again, dividing the last quotient by 1,000046053, the next less number in the table, the quotient is 1,000023015, which gives 9 in the 6th class for the 6th figure of the logarithm sought: and again dividing the last quotient by 1,000020724, the next less number, the quotient is 1,000002291, the next less than which, in the 7th class, gives 9 for the 7th figure of the logarithm: and dividing the last quotient by 1,000002072, the quotient is 1,000000219, which gives 9 in the 8th class for the 8th figure of the logarithm: and again the last quotient 1,000000219, being divided by 1,000000207, the next less, the quotient 1,000000012 gives 5 in the same 8th class, when one figure is cut off, for the 9th figure of the logarithm sought. All which figures collected together give 3,301029995 for Briggs's logarithm of 2000, the index 3 being supplied; which logarithm is true in the last figure.

To find the number answering to any given logarithm, as suppose to 3,30101300: omitting the charecteristic, against the other figures 3, 0, 1, 0, 3, 0, 0, as in the first column in the margin, are the several numbers as in the 2d column, found from their respective 1st, 2d, 3d, &c classes; the effective numbers of which multiplied continually together, the last product is 2,0000000019966, which, because

the characteristic is 3, gives 2000,000019966, or 2000 only, for the required number, answering to the given logarithm.

## Of Mr. Jones's Method.

In the 61st volume of the Philosophical Transactions, is a small paper on logarithms, which had been drawn up, and left unpublished by the learned and ingenious William Jones, Esq. The method contained in this memoir, depends on an application of the doctrine of fuxions, to some properties drawn from the nature of the exponents of powers. Here all numbers are considered as some certain powers of a constant determinate root: so, any number x may be considered as the z power of any root r, or that  $x=r^z$  is a general expression for all numbers, in terms of the constant root r, and a variable exponent z. Now the index z being the logarithm of the number x, therefore, to find this logarithm, is the same thing, as to find what power of the radical r is equal to the number x.

From this principle, the relation between the fluxions of any number, x, and its logarithm z, is thus determined; Put r=1+n; then is  $x=r^z=(1+n)^z$ , and  $x+\dot{x}=(1+n)^{z+\dot{z}}=(1+n)^z\times (1+n)^{\dot{z}}=x\times (1+n)^{\dot{z}}$ , which by expanding  $(1+n)^{\dot{z}}$ , omitting the 2d, 3d, &c powers of  $\dot{z}$ , and writing q for  $\frac{n}{1+n}$ , becomes

 $x + x\dot{z} \times : q + \frac{1}{2}q^2 + \frac{1}{2}q^3 + \frac{1}{4}q^4 &c;$ therefore  $\dot{z} = ax\dot{z}$ , putting a for the series  $q + \frac{1}{4}q^2 + \frac{1}{2}q^3 &c$ , or  $f\dot{z} = x\dot{z}$ , putting  $f = \frac{1}{a}$ .

Now when r = 1 + n = 10, as in the common logarithms of Briggs's form; then n = 9, q = .9, and the series  $q + \frac{1}{2}q^2 + \frac{1}{3}q^3$  &c, gives a = 2.302585 &c, and therefore its reciprocal f = .434294 &c. But if a = 1 = f, the form will be that of Napier's logarithms.

From the above form  $x\dot{z}=f\dot{x}$ , or  $\dot{z}=\frac{f\dot{x}}{x}$ , are then deduced many curious and general properties of logarithms, with the several series heretofore given by Gregory, Mercator, Wallis, Newton, and Halley. But of all these series, that one which our author selects for constructing the logarithms, is this, putting  $N=\frac{r-p}{r+p}$ , the

logarithm of  $\frac{r}{p}$  is  $= 2f \times : N + \frac{1}{3}N^3 + \frac{1}{3}N^5 + \frac{1}{7}N^7$  &c, in the case in which r-p is =1, and consequently in that case

 $N=\frac{1}{2r-1}$  or  $\frac{1}{2p+1}$ ; which series will then converge very fast.

Hence, having given any numbers, p, q, r, &c, and as many ratios a, b, c, &c, composed of them, the difference between the two terms of each ratio being 1; as also the logarithms A, B, C, &c of those ratios given: to find the logarithms P, Q, R, &c of those numbers; supposing f = 1. For instance, if p = 2, q = 3, r = 5; and  $a = \frac{9}{8} = \frac{3^2}{2^3}$ ,  $b = \frac{16}{15} = \frac{2^4}{3.5}$ ,  $c = \frac{25}{24} = \frac{5^2}{3.2^3}$ . Now the logarithms  $A_2$ , B, C, of these ratios a, b, c, being found by the above series, from the nature of powers we have these three equations,

A=2Q-3P which equa- $\begin{cases} P=3A+4B+2C=\log . \text{ of } 2. \\ Q=5A+6B+3C=\log . \text{ of } 3. \end{cases}$  tions re- $\begin{cases} C=2R-Q-3P \end{cases}$  duced give  $\begin{cases} R=7A+9B+5C=\log . \text{ of } 3. \end{cases}$  And hence P+R=10A+13B+7C is = the logarithm of  $2\times 5$  or 10.

An elegant tract on logarithms, as a comment on Dr. Halley's method, was also given by Mr. Jones, in his Synopsis Palmariorum Matheseos, published in the year 1706. And, in the Philosophical Transactions, he communicated various improvements in goniome-

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trical properties, and the series relating to the circle and to trigono-

metry.

The memoir above described was delivered to the Royal Society by their then librarian, Mr. John Robertson, a worthy, ingenious, and industrious man; who also communicated to the Society several little tracts of his own relating to logarithmical subjects; he was also the author of an excellent Treatise on the Elements of Navigation in two volumes; and he was successively mathematical master to Christ's hospital in London; to the royal naval academy at Portsmouth; and librarian, clerk, and house-keeper to the Royal Society; at whose house, in Crane-Court, Fleet-Street, he died in 1776, aged 64 years.

And among the papers of Mr. Robertson, I have, since his death, found one containing the following particulars relating to Mr. Jones, which I here insert, as I know of no other account of his life, &c, and as any true anecdotes of such extraordinary men must always be acceptable to the learned. This paper is not in Mr. Robertson's hand writing, but in a kind of running law-hand, and is signed R. M.

19 Sept. 1771.

"William Jones, Esq. F. R. S. was born at the foot of Bodavon mountain [Mynydd Bodafon], in the parish of Llansihangel tre'r Hardd, in the isle of Anglesey, North Wales, in the year 1675. His father John George \* was a farmer of a good family, being descended from Hwfa ap Cynddelw, one of the fifteen tribes of North Wales. He gave his two sons the common school education of the country, reading, writing, and accounts, in English, and the Latin grammar. Harry his second son took to the farming business; but William the eldest, having an extraordinary turn for mathematical studies, determined to try his fortune abroad from a place where the some was but of little service to him; he accordingly came to London, accompanied by a young man, Rowland Williams, afterwards eminent perfumer in Wych-Street. The report in the country is, that Mr. Jones soon got into a merchant's counting-house, and so gained the esteem of his master, that he gave him the command of a ship for a West-India voyage; and that upon his return he set up a mathematical school, and published his book of navigation †; and that upon the death of the merchant he married his widow: that Lord Macclesfield's son being his pupil, he was made secretary to the chancellor, and one of the D. tellers of exchequer—and they have a story of an Italian wedding which caused great disturbance in Lord Macclesfield's family, but compromised by Mr. Jones; which

It is the custom in several parts of Wales for the name of the father to become the sursame of his children. John George the father was commonly called Sion Siors of Llambabo,

to which perish he moved, and where his children were brought up."

+ This tract on navigation, entitled, "A new Compendium of the whole Art of Practical Navigation," was published in 1702, and dedicated "to the reverend and learned Mr. John Horris, M. A. and F. R. S." the author, I apprehend, of the "Universal Dictionary of Arts and Sciences," under whose roof Mr. Jones says he composed the said treatise on Navigation.

gave rise to a saying, that Macclesfield was the making of Jones, and Jones the making of Macclesfield."

Mr. Jones died July 3, 1749, being vice-president of the Royal Society: and left one daughter, and a son, born in 1748, who was the late Sir William Jones, one of the judges in India, and highly esteemed for his great abilities and extensive learning; and who died in India, in the year 1794.

Euler's method given in his Introd. in Anal. Infinit, is much the same, in manner and effect, as that of Mr. Jones, given above.

Of Mr. Andrew Reid and Others.

Andrew Reid, Esq. published in 1767 a quarto tract, under the title of An Essay on Logarithms, in which he also shows the computation of logarithms from principles depending on the binomial theo-rem and the nature of the exponents of powers, the logarithms of numbers being here considered as the exponents of the powers of 10. He hence brings out the usual series for logarithms, and largely exemplifies Dr. Halley's most simple construction.

Besides the authors whose methods have been here particularly described, many others have treated on the subject of logarithms, and of the sines, tangents, secants, &c; among the principal of whom are Leibnitz, Euler, Maclaurin, Wolfius, and professor Simson in an elegant geometrical tract on logarithms, contained in his posthumous works, elegantly printed in 4to. at Glasgow, in the year 1776, at the expense of the very learned Earl Stanhope, and by his Lordship disposed of in presents among gentlemen most eminent for mathematical learning.

Of Mr. Dedson's Anti-logarithmic Canon.

The only remaining considerable work of this kind published, that I know of, is the Anti-logarithmic Canon of Mr. James Dodson, an ingenious mathematician, and sometime master of the Royal Mathematical School, in Christ's Hospital, London: which work he published in folio in the year 1742: a very great performance, containing all logarithms under 100000, and their corresponding natural numbers to 11 places of figures, with all their differences and the proportional parts; the whole arranged in the order contrary to that used in the common talles of numbers and logarithms, the exact logarithms being here placed first, and increasing continually by 1, from 1 to 100000, with their corresponding nearest numbers in the columns opposite to them; and by means of the differences and proportional parts, the logarithm to any number, or the number to any logarithm, each to 11 places of figures, is readily found. This work contains also, besides the construction of the natural numbers to the given logarithms, "precepts and examples, showing some of the uses of logarithms, in facilitating the most difficult operations in common arithmetic, cases of interest, annuities, mensuration, &c; to which is prefixed an introduction, containing a short account of logarithms, and of the most considerable improvements made, since their invention, in the manuer of constructing them."

The manner in which these numbers were constructed, consists chiefly in imitations of some of the methods before described by Briggs, and is nothing more than generating a scale of 100000 geometrical proportionals, from 1 the least term to 10 the greatest, each continued to 11 places of figures; and the means of effecting this, are such as easily flow from the nature of a series of proportionals, and are briefly as follow. First, between 1 and 10, are interposed 9 mean proportionals; then between each of these 11 terms there are interposed 9 other means, making in all 101 terms; then between each of these a 3d set of 9 means, making in all 1001 terms; again between each of these a 4th set of 9 means, making in all 10001 terms; and lastly, between each two of these terms, a 5th set of 9 means, making in all 100001 terms, including both the 1 and the 10. The first four of these 5 sets of means, are found each by one extraction of the 10th root of the greater of the two given terms, which root is the least mean, and then multiplying it continually by itself according to the number of terms in the section or set; and the 5th or last section is made by interposing each of the 9 means by belp of the method of differences before taught. Namely, putting 10 the greatest term

= A, A  $\stackrel{1}{}^{1}$  = B, B  $\stackrel{1}{}^{1}$  = C, C  $\stackrel{1}{}^{1}$  = D, D  $\stackrel{1}{}^{1}$  = E, and E  $\stackrel{1}{}^{2}$  = F; now extreeting the 10th root of A or 10, it gives 1,2589254118 = B = are for the least of the 1st set of means; and then multiplying it continually by itself, we have B, B<sup>2</sup>, B<sup>3</sup>, B<sup>4</sup>, &c, to B<sup>10</sup> = A, for all the 10 terms: 2dly, the 10th root of 1,2589254118 gives 1,0232929923 =  $c = B^{\frac{1}{10}} = A^{\frac{1}{100}}$ , for the least of the 2d class of means, which being continually multiplied gives c, c2, c3, &c, to c<sup>100</sup> = B<sup>10</sup> = A for all the 2d class of 100 terms: 3dly, the 10th root of 1,0232929923 gives  $1,0023052381 = D = C^{T_0} = B^{T_0} = A^{T_0}$ for the least of the 3d class of means, which being continually multiplied, gives D, D<sup>2</sup>, D<sup>3</sup>, &c, to D<sup>100</sup> =  $c^{100} = B^{10} = A$  for the 3d class of 1000 terms: 4thly, the 10th root of 1,0023052381 gives  $1,0002302850 = E = D^{\frac{1}{10}} = C^{\frac{1}{100}} = B^{\frac{1}{1000}} = A^{\frac{1}{10000}}$  for the least of the 4th class of means, which being continually multiplied, gives R,  $E^2$ ,  $E^3$ , &c, to  $E^{10000} = D^{1000} = C^{100} = B^{10} = A$  for the 4th class of 10000 terms. Now these 4 classes of terms, thus produced, require no less than 11110 multiplications of the least means by themselves: which however are much facilitated by making a small table of the first 10 or even 100 products of the constant multiplier, and from thence only taking out the proper lines and adding them together: and these 4 classes of numbers always prove themselves at every 10th term, which must always agree with the corresponding successive terms of the preceding class. The remaining 5th class is constructed by means of differences, being much easier than the method of continual multiplication, the 1st and 2d differences only being used, as the 3d difference is too small to enter the computation of the sets of 9 means between each two terms of the 4th class.

And the several 2d differences for each of these sets of 9 means, are

found from the properties of a set of proportionals 1, r, r<sup>2</sup>, r<sup>3</sup>, &cc, as disposed in the 1st column of the annexed table, and their several orders of differences as in the other columns of the table; where it is evident that each column, both

Terms	1st dif.	2d dif.	ad dif.	Sec
1 X	$(r-1)\times$	$(r-1)^2 \times$	$(r-1)^3 \times$	
ı	1	1	1	
7	7	7	r	ڹ
72	72	7	72	&c.
73	73	<b>r</b> ,	T3	
Sec.	&c.	Sec.	&c	

that of the given terms of the progression, and those of their orders of differences, forms a scale of proportionals, having the same common ratio r, and that each horizontal line, or row, forms a geometrical progression, having all the same common ratio r-1, which is alsothe 1st difference of each set of means; so  $(r-1)^2$  is the 1st of the 2d differences, and which is constantly the same, as the 3d differences become too small in the required terms of our progression to be regarded, at least near the beginning of the table: hence, like as 1, r-1, and  $(r-1)^2$  are the first term, with its 1st and 2d differences; so  $r^n$ ,  $r^n$  (r-1), and  $r^n$   $(r-1)^2$ , are any other term with its 1st and 2d differences. And by this rule the 1st and 2d differences are to be found for every set of 9 means, viz, multiplying the 1st term of any class (which will be the several terms of the series B, E,  $E^3$ , &c, or every 10th term of the series F,  $E^2$ ,  $E^3$ , &c), by r-1 or F-1 for the 1st difference, and this multiplied by F-1 again, for the true 2d difference at the beginning of that class. Thus, the 10th root of 1,0002302850 or R gives 1,000023026116 for F, or the 1st mean of the lowest class, therefore r-1=r-1=r,000023026116 is its 1st difference, and the square of it is  $(r-1)^{2}$ . = ,000000005302 its 2d difference; then is ,000023026116 $F^{100}$ or 000000005302E is the 2d difference at the beginning of the nth class of decades. And this 2d difference is used as the constant 2d difference through all the 10 terms, except towards the end of the table, where the differences increase fast enough to require as small correction of the 2d difference, which Mr. Dodson effects. by taking a mean 2d difference among all the 2d differences, in this manner: having found the series of 1st differences (F-1)  $E^{n}$ ,  $(F-1)E^{n+1}$ ,  $(F-1)E^{n+2}$ , &c, take the differences of these, and for of them will be the mean 2d differences to be used, namely,

 $\frac{F-1}{10}$  ( $\frac{n+1}{E}-E$ ),  $\frac{F-1}{10}$  ( $\frac{n+2}{E}-\frac{n+1}{E}$ ), &c, are the mean 2d differences. And this is not only the more exact, but also the casier way. The common 2d difference, and the successive 1st differences, are then continually added, through the whole decade, to give the successive terms of the required progression.

#### DESCRIPTION AND USE

OR

# LOGARITHMIC TABLES.

Trough the nature and construction of logarithms have been pretty fully treated in the preceding history of such numbers, where the more lumed and curious reader will find abundant satisfaction, I shall here five a brief, easy, and familiar idea of these matters, for the practical me of young students in this subject.

### The Definition and Notation of Logarithms.

Logarithms may be considered the indices or arithmetical series of manbers, adapted to the terms of a geometrical series, in such sort

Thus \{ 0 & 1 & 2 & 3 & 4 & 5, &c, indices or logarithms, \\ 1 & 2 & 4 & 8 & 16 & 32, &c, geometric progression. \\ \text{or} \{ 1 & 3 & 9 & 27 & 81 & 243, &c, geometric series. \\ \text{or} \{ 0 & 1 & 2 & 3 & 4 & 5, &c, indices or logarithms, \\ \text{or} \{ 1 & 5 & 3 & 4 & 5, &c, indices or logarithms, \\ \text{or} \{ 1 & 10 & 100 & 1000 & 1000 \} 1, 10, 100, 1000, 10000, 100000, &c, geometric series.

Where the same indices serve equally for any geometric series; and from which it is evident, that there may be an endless variety of systems of logarithms to the same common numbers, by varying the 12 term, 2, or 3, or 10, &c, of the geometric series; as this will. change the original series of terms, whose indices are the integer numbers, 1, 2, 3, &c; then by interpolation the whole system of makers may be made to enter the geometrical series, and receive their proportional logarithms, whether integers or decimals.

Or, the logarithm of any number is the index of that power of some other number, which is equal to the given number. So, if N

be  $= r^n$ , then the logarithm of N is n, which may be either positive or negative, and r any number whatever, according to the different systems of logarithms. When n is 1, then n=0, whatever the value of ris; and consequently the logarithm of 1 is always 0 in every system of logarithms. When n is = 1, then n is = r: consequently r is always the number whose logarithm is 1, in every system. When r is = 2.718281828459 &c, the indices are the hyperbolic logarithms, such as in our 7th table: so that n is the hyperbo-.

lic logarithm of (2.718 &c)". But in the common logarithms, r

is = 10; so that the common logarithm of any number (10") (n) the index of that power of 10 which is equal to the said number. So 1000, being the 3d power of, 10, has 3 for its logarithm; and if 50 be = 10 1.69897, then is 1.69897 the common logarithm of 50. And hence it follows, that this decupal series of terms

 $10^4$  ,  $10^3$  ,  $10^2$  ,  $10^4$  ,  $10^6$  ,  $10^{-1}$  ,  $10^{-2}$  ,  $10^{-3}$  or 10000, 1000, 100, 10 , 1 , 1 , 01 , 001 , 4 , 3 , 2 , 1 , 0 , -1 , -2 , -3 , etively for their levels 10000, 0001 have 4, 3, 2, 1 respectively for their logarithms.

The logarithm of a number comprehended between any two terms of the first series, is included between the two corresponding terms of the latter, and therefore that logarithm will consist of the same index (whether positive or negative) as the less of those two terms, together with a decimal fraction, which will always be positive. So the number 50, falling between 10 and 100, its logarithm will fall between 1 and 2, and is = 1.69897, the index of the less term, together with the same decimal 69897 as before; also the number 05, falling between the terms '1 and '01, its logarithm will fall between -1 and -2, and is indeed =-2+69897, the index of the less term together with still the same decimal '69897. The index is also called the characteristic of the logarithms, and is always an integer, either positive or negative, or else = 0; and it shows what place is occupied by the first significant figure of the given number, either above or below the place of units, being in the former case + or positive, in the latter — or negative.

When the characteristic of a logarithm is negative, the sign — is

commonly set over it, to distinguish it from the decimal part, which being the logarithm found in the tables, is always positive: so -2 + 69897, or the logarithm of 05, is written thus 2.69897. But on some occasions it is convenient to reduce the whole expression to a negative form; which is done by making the characteristic figure less by 1, and taking the arithmetical complement of the decimal, that is, beginning at the left hand, subtract each figure from 9. except the last significant figure, which subtract from 10; so shall the remainders form the logarithm entirely negative. Thus the logarithm of '05, which is 2.69897, or -2+.69897, is also expressed by -1.30103, which is wholly negative. It is also sometimes thought more convenient to express such logarithms wholly as positive, namely, by only joining to the tabular decimal the complement of the index to 10: in which way the above logarithm is expressed by 8-69-97; which is only increasing the indices in the scale by 10. It is also convenient, in many operations with logarithms, to take their arithmetical complements, which is done, as above mentioned, by beginning at the left hand, and subtracting every figure from 9, but the last figure from 10: so the arithmetical complement

of 1:60897 { and of 2:69807 } where the index - 2, being negative, is 8:20103 } it is 11:30103 } is added to 9, and makes 11.

### The Properties of Logarithms.

From the definition of logarithms, either as being the indices of a series of geometricals, or as the indices of the powers of the same root, it follows, that the multiplication of the numbers will answer to the addition of their logarithms; the division of numbers, to the subtraction of their logarithms; the raising of powers, to the multiplying the logarithm of the root by the index of the power; and the extracting of roots, to the dividing the logarithm of the given number by the index of the root required to be extracted. So

1st. L: ab or 
$$a \times b$$
 is  $= L$ .  $a + L$ .  $b$ 
L. 18 or  $3 \times 6$  is  $= L$ .  $3 + L$ .  $6$ 
L.  $5 \times 9 \times 73$  is  $= L$ .  $5 + L$ .  $9 + L$ .  $73$ 

2d. L.  $a \div b$  is  $= L$ .  $a - L$ .  $b$ 
L.  $18 \div 6$  is  $= L$ .  $18 - L$ .  $6$ 
L.  $79 \times 5 \div 9$  is  $= L$ .  $79 + L$ .  $5 - L$ .  $9$ 
L.  $\frac{1}{2}$  or  $1 \div 2$  is  $= L$ .  $1 - L$ .  $2 = 0 - L$ .  $2 = -L$ .  $2$ 
L.  $\frac{1}{n}$  or  $1 \div n$  is  $= -L$ .  $n$ .

3d. L. 
$$r^n$$
 is  $= n$  L.  $r$ ; L.  $r^n$  or L.  $\sqrt[n]{r}$  is  $= \frac{1}{n}$  L.  $r$ ; L.  $r^n$  is  $= \frac{m}{n}$  L.  $r$ .  
L.  $2^6$  is  $= 6$  L. 2; L.  $2^{\frac{1}{3}}$  or L.  $\sqrt[3]{2}$  is  $= \frac{1}{3}$  L. 2; L.  $2^{\frac{3}{3}}$  is  $= \frac{1}{3}$  L. 2.

So that any number and its reciprocal have the same logarithm but with contrary signs; and the sum of the logarithms of any number and its complement, is equal to 0.

### To construct Logarithms.

It has been shown, in the foregoing historical part, that the logarithm of  $\frac{b}{a}$  is  $=\frac{2}{m}\times :\frac{x}{z}+\frac{x^3}{3z^3}+\frac{x^5}{5z^5}+\frac{x^7}{7z^7}$  &c, where z is the

sum and x the difference of a and b; also m = 2.302585092994 &c, the hyp. logarithm of 10. Therefore if a and b be any two numbers differing only by unity, so that x or b - a may be = 1;

then shall the logarithm of b be = 
$$a + \frac{2}{m} \times \frac{1}{z} + \frac{1}{3z^3} + \frac{1}{5z^5} &c.$$

Which gives this rule in words at length: call z the sum of any number (whose logarithm is sought) and the number next less by unity: divide 8685889638 &c (or  $2 \div 2.3025$  &c) by z, and reserve the quotient: divide the reserved quotient by the square of z, and reserve this quotient: divide this last quotient also by the square of z, and again reserve this quotient: and thus proceed continually, dividing the last quotient by the square of z, as long as division can be made. Then write these quotients orderly under one another, the first uppermost, and divide them respectively by the uneven numbers 1, 3, 5, 7, 9, 11, &c, as long as division can be made:

that is, divide the first reserved quotient by 1, the 2d by 3, the 3d by 5, the 4th by 7, &c. Add all these last quotients together, then the sum will be the logarithm of  $b \div a$ ; and therefore to this logarithm adding also the logarithm of a the next less number, the sum will be the required logarithm of b the number proposed.

	re the next	les	s number is	1, and $2+1$	He		ess i	number is 2	, and 2 + 3
:	$= 3 = z,  \nabla$	vho	ose square is	9. Then		= 5 = z, w	hose	e square is :	25, to divide
3):	868588964	1	<b>-289529654</b> (	(-289529654		by which alw	vays	multiply b	y '04. Then
9):	<b>2895296</b> 54	3	32169962	( 10723321	5	).868588964	i)·	17371 <b>779</b> 3	(-173717793
.9)	<b>3</b> 2169962	5	3374440	714888	25	)·173717793	3)	6948712	( 2316237
9)	3574440	7	397160	56737	25	6948712	5)	277948	( 55590 \
9)	397160	9	44129	<b>4903</b>	25	277948	7)	11118	( 1588
9)	44129	11	4903	( 446	25	) 11118	9)	448	50
9)	4903	13	545	<b>(</b> 42	25	) 445	11)	18	<b>(</b> 2
9)	545	15	61	( 4	Ì	18	İ	. <del>.</del>	176091260
9)	61		Log. 🛔 -	·301029995			_	. 2 add -	·301029995
			Add L. 1 -	.0000000000			I	3	·477121255
	• •		Log. of 2 -	·301029995					

Then because the sum of the logarithms of numbers gives the logarithm of their product, and the difference of the logarithms gives the logarithm of the quotient of the numbers, from the above two logarithms, and the logarithm of 10 which is 1, we may raise a great many other logarithms, thus:

```
Er. 3. Because 2 \times 2 = 4, therefore Er. 6.
                                               Because 3^2 = 9, therefore
                      ·301029995<del>4</del>
                                          L 3
    add L. 2
                       ·301029995<del>4</del>
                                          mult. by 2
    sum is L. 4 -
                       ·6020599914
                                          gives L. 9
                                                            ·954242509
Ex. 4. Because 2 \times 3 = 6, therefore Ex. 7. Because \frac{10}{2} = 5, therefore
    to L. 2 -
                                          from L. 10
                                                        - 1.000000000
                       ·301029995
     add L. 3
                    - '477121255
                                          take L. 2 -
                                                             ·301029995
    sum is L. 6 -
                    - .7781511250
                                          leaves L. 5
                                                             ·6989700044
Ex. 5. Because 2^3 = 8, therefore Ex. 8. Because 12 = 3 \times 4, therefore
                       ·3010299954
                                          to L. 3
                                                             •477121255
    1.2 - -
                                          add L. 4
    mult. by 3 -
                                                             ·602059991
    gives L. 8
                                          gives L. 12
                                                            1.079181246
                       ·903089987
```

And thus, computing, by the general rule, the logarithms of the other prime numbers, 7, 11, 13, 17, 19, 23, &c; and then using composition and division, we may easily find as many logarithms as we please, or may speedily examine any logarithm in the table.

### THE DESCRIPTION AND USE OF THE TABLES.

HE following collection consists of various tables, in the following order, viz. 1, A large table of logarithms to 7 places of figures; 2, A table for finding logarithms and numbers to 20 places; 3, Logarithms to 20 places, with their 1st, 2d, and 3d differences; 4, Another table of logarithms to 20 places, with their 1st, 2d, and 3d differences; 5, Logarithms to 61 places; 6, Another table of logarithms to 61 places, with their 1st, 2d, 3d, and 4th differences; 7, Hyperbolic logarithms; 8, Logistic logarithms; 9, Logarithmic sines and tangents to every second of the first 2 degrees; 10, Natural and logarithmic sines, tangents, secants, and versed sines, with their differences to every minute of the quadrant. After which follow several smaller tables; as a table of the lengths of circular arcs; a traverse table, or table of difference of latitude and departure, to every degree and quarter point of the compass; a table for changing the common logarithms into hyperbolic logarithms; and a table of the names and number of degrees &c in every point of the compass; as also lists of errata in various works of this sort. Of each of which in their order.

### Of the large Table of Logarithms.

The first is the large table of logarithms, to all numbers from 1 to 100000; by which may be found the logarithm to any number, and the number to any logarithm, to 7 places of figures. This table consists of two parts; the first contains, in 4 pages, the first 1000 numbers, with their corresponding logarithms in adjacent columns; the second contains all the 100000 numbers and their logarithms, with the differences and proportional parts, disposed as follows: in the 1st column of each page are the first 4 figures of the numbers, and along the top and bottom of the columns is the 5th figure, in which columns are placed all the logarithms, the first 3 figures of each logarithm being at the beginning of the lines in the first column of logarithms, signed 0 \* the top and bottom, and the other 4 figures in the remaining co-Sometimes the first three figures of the logarithms are found in the line next below the number, viz. when the fourth figures have changed from 9's to 0's, in which case, a bar is placed over the first cipher, to catch the eye, thus 0. After the 10 columns of logarithms, stands their column of differences, signed D; and lastly, after that, the column of proportional parts, signed Pro. Pts. showing what proportional part of each difference corresponds to 1, 2, 3, &c, the whole difference answering to 10; or showing the 10, 12, 13, &c, of the differences.

Note, The logarithms in these columns are all supposed to be decimals, and their corresponding natural numbers may be either integers or decimals or mixt numbers; for the same figures, whatever be their denomination, have the same decimal logarithm, and these differ only in the index or characteristic, which is the integer num-

ber to be prefixed to the decimal part of the logarithm; and this is always the number which expresses the distance of the highest denomination, or left-hand figure, of the natural number, from the units place. So that if the natural number consist of only one place of integers, the index of its log. will be 0: if of 2, 3, 4, 5, &c, the index of its logarithm will be respectively 1, 2, 3, 4, &c, being 1 less than the number of integer places: and the same figures made negative will give the index of the logarithm of a decimal, viz. if the natural number be a decimal, and its first significant figure be in the place of primes, 2ds, 3ds, 4ths, &c, the index of its logarithm will be respectively 1, 2, 3, 4, &c, or the figure which expresses the distance of the first place of the natural number from the units place, but with a negative sign, as the number is below the place of units, the sign being written above the index instead of before it, as that part only of the logarithms is to be considered as negative, the decimal part of it being always affirmative. And in the arithmetical operations of addition and subtraction with logarithms, the negative indexes will have the contrary effect to that of the decimal part of the logarithm, viz. when the logarithm is to be added, the figure of the negative index must be subtracted, et vice

versa. Hence if 4234097 be the tabular or decimal part of the logarithm belonging to the figures 2651, without any regard to their particular denominations; then according as they are varied with respect to the number of decimals, as in the 1st annexed column, the index of their logarithm, and the complete logarithm, will vary as in the 2d column here annexed. And hence, like as when the natural number is given, we find the index

Number	Logar.
2651	3.4234097
265·1	2.4234097
26.51	1.4234097
<b>2</b> ·651	0.4234097
<b>·26</b> 51	1-4234097
·02651	2.4234097
-002651	5-4234097

of its logarithm by counting how far its first figure on the left hand is from the units place; so when a logarithm is given, the denominations of the figures in its natural number will be found by placing the decimal point so, that the number of integer places may be 1 more than that of the index when positive, or by setting the first significant figure in that decimal place, which is expressed by the number of the index when negative.

Of finding the Logarithm of a given Number, or the Number to a given Logarithm.

# 1. To find the Logarithm of a Number consisting of 3 figures.

Find the number in the column of numbers in one of the first 4 pages of the table, and immediately on the right of it is its logarithm sought. So the logarithm of 72 is 1.8573325, and the logarithm of 3.33 is 0.5224442, when the proper index is supplied.

### 2. To find the Logarithm of a Number consisting of 4 Places.

In the first column (signed N) in some one of the pages of the table after the first four, find the given number, then against it in the 2d column (signed 0) is the logarithm sought. So the logarithm of 2254 is 3:3529539, and that of 31:32 is 1:1958218.

# 3. To find the Logarithm of a Number consisting of 5 Places.

Find the first 4 figures of the given number in the first column as before, and the 5th figure at the top or bottom; then the 7 figures of the logarithm are found in two columns on the line of the first 4 figures of the given number, viz. the first 3 figures of the logarithm are the first 3 common figures of the 2d column (signed 0), and the last 4 figures are on the same line, but in the column signed with the 5th figure of the given number. So the logarithm of 23204 is 4:3655629, and that of 746:40 is 2:8729716, and that of :083178 is 29200085.

Note, When the last four figures of the logarithm begin with a cipher, or any figure less than the last four in the 2d column begins with, then the first 3 common figures are those in the next lower line: so in the last example the first 3 common figures are 920, and not 919.

# 4. To find the Logarithm of a Number of 6 Places.

Find the logarithm of the first 5 figures by the last article, and take the difference between that logarithm and the next following logarithm, or (which is the same thing) find the difference nearest opposite in the last column but one, signed D; then under that difference in the last column (of proportional parts) and against the 6th figure of the given number, is the part to be added to the logarithm before found for the first 5 figures, the sum being the logarithm sought. So to find the logarithm of 3409.26: the logarithm of 34092, the first 5 figures, being 53265.5, and the common difference 127, under which and against 6 in the last column is 76, which being added to the former logarithm, and the proper index prefixed, we have 3.5326601 for the whole logarithm required.

# 5. To find the Logarithm of a Number of 7 Places.

Find the logarithm of the first 5 figures by the 3d article, and of the sixth figure by the 4th article; then for the logarithm of the 7th figure, divide its proportional part by 10, that is, set it one place farther to the right hand than the last figure of the logarithm reaches; add all the three together, and their sum will be the logarithm required.

Thus, to find the logarithm of 3:409264.	
The several parts being taken out according Numb. Logs	ar.
to the rule, and placed as in the margin, the 34092 53265	
sum gives the whole logarithm sought.	76
Note, In the same way we might take out 4 -	5,1
the proportional part of an 8th figure, divid- 3:409264 - 0:53266	306
ing its tabular part by 100, or setting it two	
places farther to the right hand than the first logarithm. Or	the
whole proportional part for any number of figures above five,	
be found at once, by multiplying the common tabular	
difference of the logarithms, found as before, by all	127
the figures after the 5th, cutting off from the product	64
as many figures as we multiply by, and adding the	508
	762
	1.28
the common difference 127, multiplying it by 64 the 532652	
last two figures, cutting off two, add the rest to the Assume	

For another example, suppose we wanted the logarithm of the following 8 figures 34092648. The operation by both methods will be

logarithm of the first 5, as in the margin.

as below.

### 6. To find the Logarithm of a Vulgar Fraction, or of a Mixt Number.

Either reduce the vulgar fraction to a decimal, and find its logarithm as above. Or else (having reduced the mixt number to an improper fraction), subtract the logarithm of the denominator from the logarithm of the numerator, and the remainder will be the logarithm of the fraction sought.

### 7. To find the Natural Number answering to any given Logarithm.

Find the first S figures, next after the index of the given logarithm, in the second column, signed 0, and the other 4 figures on the sume line in one of the nine following columns; if the figures of the loga-

rithm be thus found exactly, then on the same line in the first column are the first four figures of the natural number, and the 5th is at the top or bottom of that column in which the last four figures of the log. were found. So to find the number answering to the logarithm 2.5890108. In pa. 63 I find the first three figures 589, and in column 6 of the line above are found the other four 0108 (because the first three common figures are supposed to begin at that part of the line above where they are placed): then on the same line in the column of numbers stand the first four figures 388.1, and 6 at the top of the column, making in all 388.16 for the number sought; having placed the decimal point so as to make three integers, being 1 more than 2 the index of the given logarithm.

But if the given logarithm be not found exactly in the table, subtract the next less tabular logarithm from it, and look for the remainder in the proportional parts under the difference between the two tabular logarithms next less and greater than the given logarithm, and against it, or the part next less, is a 6th figure to be annexed to the five figures before found. And if the remainder be not found exactly in the proportional parts, subtract the next less part from it, and annex a cipher to this 2d remainder, then against the nearest proportional part (either greater or less) is a 7th figure to be annexed to the six before found. And that figure will be the nearest

to the truth in that place, either too much or too little.

Ex. To find the number answering to the logarithm 1.2335678. The next less tab. log. is the log. of 17122 viz. 2335545

			1st rem.		]	33
The difference is 254	•	5	for the part		1	27
and the table of pro. pts. gives			2d rem.			60
and the table of pro. pts. gives	-	2	for the part	-	-	51

So that the number sought is 17·12252, making two integers for the index 1.

Or the 6th and 7th figures may be found without the table of proportional parts, by dividing the first remainder by the tabular differ-

figure to be found. So, in the last example, the remainder 133, with two ciphers annexed, being divided by the tabular difference 254, as in the margin, the quotient gives 52 for the 6th and 7th figures, the same as before. In like manner may be found the numbers to the following logarithms.

	254)133,00(52
	127,0
	600
•	<b>508</b>

Logar. 1-2345678 3-7343003 1-0921406 2-3720468 4-6123004 3-2946809 Numb. 17-16200 5-423758 1-1236348 1-02355303 40954-39 1970-974

### OF LOGARITHMICAL ARITHMETIC.

### I. Multiplication by Logarithms.

Add together the logarithms of all the factors; then the sum is a logarithm, the natural number corresponding to which, being found in the table, will be the product required.

Observing to add, to the sum of the affirmative indices, what is car-

ried from the sum of the decimal parts of the logarithms.

And that the difference between the affirmative and negative indices, is to be taken for the index to the logarithm of the product.

Ex. 1. To multiply 23·14 by 5·062.

23·14 its log. is 1·3643634

5·062 its log. is 0·7043221

Product 117·1347 - 2·0686855

Ex. 3. To mult. 3·902, and 597·16,
and ·0314728 all together.

3·902 its log. is 0·5912873

597·16 - 2•7760907

·0314728 - 2·4979353

Prod. 73·33533 - 1·8653133

The 2 cancels the 2, and the 1 to carry from the decimals is set down.

Ex. 2. Tomul. 2.581926 by 3.457291. 2.581926 its log. is 0.4119438 **3·4**57291 - -0.5387359 Prod. 8**·9264**7 0-9506797 Ex. 4. To mult. 3.586, and 2.1046, and 0.8372, and 0.0294 all together. 3.586 its log. is 0.5546103 O-3231696 2.1046 1.9228292 0.8372 2.4683473 0.0294 1.2689564 Prod. 1857618

Here the 2 to carry cancels the 2, and

there remains the 1 to set down.

# II. Division by Logarithms.

From the logarithm of the dividend, subtract the logarithm of the divisor; the remainder is a logarithm, whose corresponding number will be the quotient required.

But first observe to change the sign of the index of the logarithm of the divisor, viz. from negative to affirmative, or from affirmative to negative; then take the sum of the indices if they be of the same kind, or their difference when of different kinds, with the sign of the greater, for the index to the logarithm of the quotient.

And when I is borrowed in the left-hand place of the decimal part of the logarithm, add it to the index of the logarithm of the divisor when that index is affirmative, but subtract it when negative; then let the index thus found be changed, and worked with as before.

Ex. 1. To divide 24163 by 4567. Divid. 24163 its log. 4.3831509 3.6596310 **Divis.** 4567 Quot. 5-290782 0.7235199

Ex. 3. To divide 06314 by 007241. Divid. 06314 its log. 2.8003046 3.8597985 Divis. 007241 Quot. 8.719792 0.9405061 Here 1 carried from the decimals to

Ex. 2. To divide 37.149 by 523.76. Divid. 37·149 its log. 1·5699471 2.7191323 Divis. 523.76 Quot. .07092752 2.8508148

Ex. 4. To divide .7438 by 12.9476. Divid. .7438 its log. 1.8714562 Divis. 12.9476 -- 1.1121893 Quot. ·05744694 - 2·7592669

the 3 makes it become 2, which taken | Here the 1 taken from the 1 makes from the other 2, leaves 0 remaining. I it become  $\overline{2}$  to set down.

### III. The Rule of Three, or Proportion.

Add the logarithms of the 2d and 3d terms together, and from their sum subtract the logarithm of the 1st, by the foregoing rules; the remainder will be the logarithm of the 4th term required.

Or in any compound proportion whatever, add together the logarithms of all the terms that are to be multiplied, and from that sum take the sum of the others; the remainder will be the logarithm of the

term sought.

But instead of subtracting any logarithm, we may add its complement, and the result will be the same. By the complement is meant the logarithm of the reciprocal of the given number, or the remainder by taking the given logarithm from 0 or from 10, changing the radix from 0 to 10; the easiest method of doing which, is to begin at the left-hand, and subtract each figure from 9, except the last significant figure on the right-hand, which must be subtracted from 10. But when the index is negative, add it to 9, and subtract the rest as And for every complement that is added, subtract 10 from the last sum of the indices.

72.34, and 2.519, and 357.4862. To 2.519 0.4012282 So 357.4862 2.5532592 To 12:44827 1.0951089 Er. 3. To find a number in proportion to .379145 as .85132 is to 0649. As .0649 - comp. log. 11.1877553 To .85132 -1.9300928 So · 379145 -1.5788054 To 4.973401 0.6966535

 $\mathbb{R}_{r}$ . 1. To find a 4th proportional to  $| E_{r}|$ . 2. To find a 3d proportional to 12.796 and 3.24718. As 72-34 - comp. log. 8-1406215 | As 12-796 - comp. log. 8-8929258 To 3.24718 -0.5115064 So 3.24718 0.5115064 To .8240216 1.9159386 Ex. 4. If the interest of 100l. for a year or 365 days be 4.51. what will be the interest of 279.251. for 274 days? **(100)** 8.0000000 comp. log. 365 7.4377071 § 279·25 2.4459932 To 2.4377506 0.6532125 So 4.5 To 9·433296 0.9746634

### IV. Involution, or Raising of Powers.

Multiply the logarithm of the number given by the proposed index of the power, and the product will be the logarithm of the power

sought.

Note, In multiplying a logarithm with a negative index by any affirmative number, the product will be negative.—But what is to be carried from the decimal part of the logarithm will be affirmative.— Therefore the difference will be the index of the product; and it is to be accounted of the same kind with the greater.

Ex. 1. To find the 2d power of Ex. 2. To find the cube of 3.07146. 2.5791.

Root 2.5791 its log. 0.4114682 index

0.8229364 Power 6:651756 -

Ex. 3. To find the 4th power of **-09163.** 

> Root -09163 its log. 2-9620377 index -

Power \*00007049\$8 - 5.8481508 Here 4 times the negative index being 8, and 3 to carry, the difference 5 is the index of the product.

Root 3.07146 its log. 0.4873449

index -

Power 28-97575 -1.4620347

Ex. 4. To find the 365th power of 1.0045.

> Root 1 0045 its log. 0 0019499 index

305

97495 116994

**58497** 

Power 5-148888 - 0-7117135

# V. Evolution, or Extraction of Roots.

Divide the logarithm of the power, or given number, by its index,

and the quotient will be the logarithm of the root required.

Note, When the index of the logarithm is negative, and the divisor is not exactly contained in it without a remainder, increase it by such a number as will make it exactly divisible; and carry the units borrowed, as so many tens, to the left-hand place of the decimal part of the logarithm; then divide the results by the index of the root.

Er. 1. To find the square root of Ex. 2. To find the cube root of **3**65.

Power 365 - 2 ) 2.5622929 Root 19·10498 -1.2811465

Er. 3. To find the 10th root of 2. Power 2 - - 10 ) 0.3010300 Root 1-071773 - 0-0301030

Er. 5. To find the square root of Er. 6. To find the cube root of ·093.

Power •093 -2)2.9684829 Root ·304959 1.4842415 Here the divisor 2 is contained exactly once in 2 the negative index, therefore the index of the quotient i l.

**12345.** 

Power 12345 - 3) 4.0914911 Root 23.11162 - 1.3638304

Ex. 4. To find the 365th root of 1.045.

> 365) 0.0191163 Power 1:045 Root 1.000121 0.0000524

·00048.

.00048 3 ) 4.6812412 Power Root .07829735 - 2.8937471

Here the divisor 3 not being exactly contained in 4, augment it by 2, to make it become 6, in which the divisor is contained just 2 times; and the 2 borrowed being carried to the other figures 6 &c, makes 2.6812412, which divided by 3 gives .8937471.

### OF THE TABLES FOR LOGARITHMS TO TWENTY PLACES.

THESE are tables 2d, 3d, and 4th, beginning at page 187. these, table 2 contains all numbers from 1 to 1000, and all uneven numbers from 1000 to 1161; with their logarithms to twenty places: table 3 contains all numbers from 101000 to 101139, with their logarithms to twenty places, and the 1st, 2d, and 3d differences of those logarithms: and table 4 contains all logarithms regularly from 00001 to 00139, with their corresponding natural numbers to twenty places, as also the 1st, 2d, and 3d differences of those numbers. And by means of them may be found the logarithm to any other number, and the number to any other logarithm, to twenty places of figures.

# (1.) To find the Logarithms to given Numbers.

Case 1. If the given number b be found in any of these three bles; then its logarithm B is in the line even with it.

Case 2. If b is known to be the product or quotient of numbers found in these tables; then B is the sum or difference of the loganithms of those numbers.

CASE 3. If a', the first six significant figures of a given number b', be found in table 3; let a' be an integer, A' its logarithm;  $\delta$  the remaining figures of b'; x the complement of  $\delta$  to a' or 1; a', a', the 1st, 2d, 3d differences of the logarithms in the same line with a'; a' is a' if a' is a' in a' in a' is a' in 
$$\frac{D' \times \delta + A' - \text{to } 12}{\frac{1}{4} x D'' + D' \times \delta + A' - \text{to } 17} \text{ places of figures nearly.}$$

$$\frac{1}{4} x f' + D' \times \delta + A' - \text{to } 20$$

Ex. 1. Given the number b' = 0.01010,26227,6351, to find B' its logarithm nearly to twelve places.

Here a' = 101026  $\delta = 0.2276351$  D' = 429881746 A' = 00443,31579,747  $\delta D' \dots + 9785,618 - 2.00443,41365,365 - 2.00443,41365,405 - 2.00443,41565,405 - 2.00445,405 - 2.00445,405 - 2.00445,405 - 2.0045,405 - 2.0045,405 - 2.0045,405 - 2.005,40$ 

Ex. 2. Given b' = 0.01010,26227,63509,626, to find B' its log. nearly to 17 places. Here a' = 101026.

 $\delta = 0.22763,509626$ ; x = 0.772365; D' = 42988,174579; D'' = 425510.

Ex. 3. Given b' = 0.01010,26227,63509,62573,17345, to find B' its log. nearly to 20 places. a' = 101026.  $\delta = 0.22763,50962,573173$ ; x = 0.77236,490374; x + 1 = 1.772365; D' = 42988,17457,86301; D'' = 42550,96343; D''' = 84236.

Case 4. If the number b do not come under one of the preceding cases: put  $\alpha$  for the first five figures of b; n for 101, the least, or some one, of the numbers in table 3; then  $\frac{\alpha}{n}$  or  $\frac{n}{\alpha} = a$  is to be had in table 2, with  $\Delta$  its logarithm; let  $B' = \frac{b}{a}$  or ba, and a' the first six significant figures of B' (found in table 3) be an integer,

and A' its logarithm; put  $\delta$  for the remaining figures of b'; x the complement of  $\delta$  to d'; D', D'', D'', the 1st, 2d, 3d, differences of the logarithms in the same line with A';  $f = \frac{1}{2} D''' \times \overline{x+1} + D''$ . Then B the logarithm of the number b will be

$$\frac{D' \times \delta + A' \pm A = B' \pm A \text{ to } 12}{\frac{1}{4}xD'' + D' \times \delta + A' \pm A = B' \pm A \text{ to } 17}$$
 places of figures nearly. 
$$\frac{1}{4}xf' + D' \times \delta + A' \pm A = B' \pm A \text{ to } 20$$

Ex. Given b = 3.14159,26535,89793,23846,26434, to find B to twenty places.

Here a = 31415 Let  $a = \frac{a}{n} = 311$ .

Then  $b' = \frac{b}{a} = 0.01010,15840,95144,02970,57$ ; a' = 101015. b' = 0.84095,14402,97057; x = 0.15904,85597; x + 1 = 1.15905;

 $\frac{1}{4}xf + D' \times \delta \qquad \qquad \frac{42992,88958,66098}{36154,93242,03919}$   $A' \dots \qquad 00438,58681,74054,30961$ 

Or let  $a = \frac{n}{a} = 3.216 = 0.536 \times 6$ .

Then  $b' = ba = 10 \cdot 10336, 19739, 44775, 0549; a' = 101033.$  b' = 0.61973, 94477, 50549; x = 0.38026, 055225; x + 1 = 1.38026; b' = 42985, 19618, 80760; p'' = 42545, 06747; p''' = 84219.

### (II.) To find the Numbers to given Logarithms.

CASE 1. When the logarithm B is found in any of these three tables; then its number b is in the line even with it.

Case 2. If the first five figures (omitting the index) of a given logarithm B', be between 00432 and 00492: take them as an integer, and put A' and c' for the logarithms, in table 3, next less and greater than B', a' and c' their numbers p let D' (= c' - A') and D' be the 1st and 2d differences in the line with A';  $\Delta = B' - A'$ ; d' = (c' - a' =) 1;  $x = \frac{D' - \Delta}{D'}$ ;  $\delta = \frac{\Delta}{D' + \frac{1}{2} \times D'}$ : then  $b' = a' + \delta$ , nearly true to 17 places of figures.

But when any other logarithm B is given, subduct 004321 from the first six figures of B: call the remainder B, and let A be the logarithm in table 2, next less than B, or next greater than the complement of B, and a its number: then B' = B - A, or B' = B + A, will be within the limits of table 3, and b' will be found as in the preceding example; and if B' = B - A, then b = ab'; or if B' = B + A, then  $b = \frac{b'}{a}$ .

CASE 3. If A', the first five figures (omitting the index) of a give logarithm B', be found in table 4: let a' be its number; and put A' an integer, and  $\triangle$  the remaining figures of B', and x the complement  $\triangle$  to D'; a', a'', a''', the 1st, 2d, 3d differences of the numbers in the same line with a';  $f = a'' - \frac{1}{2}a''' \times x + 1$ : then the number whose logarithm is B', will be

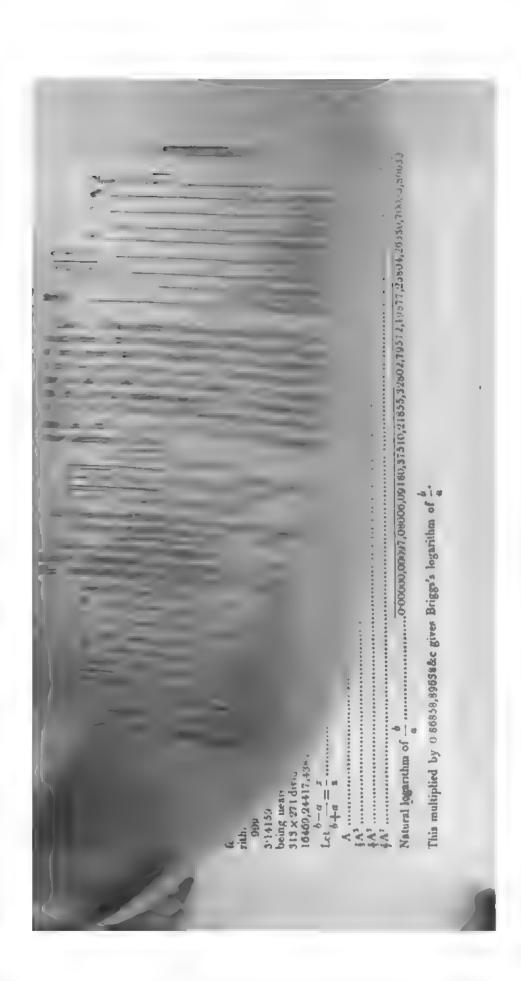
 $\frac{d' \times \Delta + \alpha' - - \text{ to } 12}{d' - \frac{1}{2} \times d' \times \Delta + \alpha' - - \text{ to } 17}$  places of figures nearly.  $\frac{d' \times \Delta + \alpha' - - \text{ to } 17}{d' - \frac{1}{2} \times f' \times \Delta + \alpha' - \text{ to } 20}$ 

Ex. Given the logarithm B' = 0.00006,93311,37711,69929, to fixits number to 20 places. Here A' = 00006.  $\Delta = 0.93311,37711,69929$ ; x = 0.06688,622883; x + 1 = 1.06685 d' = 23029,29742,21293; d'' = 53027,52746; d''' = 1.2210

1	Now $\frac{1}{3}d''' \times x + 1 \dots$		43422
_	••••••		
	½ xf		
_	<i>f</i>		
$d'-\frac{1}{2}x$	$\overline{f} \times \Delta$	10001,381	88,9 <b>3</b> 801,72000 64,6 <b>4</b> 943,57474
And b'	•••••	1.00015,96	535,87452,9474

Case 4. If the logarithm B do not come under one of the preceding cases. Put A for the logarithm in table 2, next less than B, or next greater than the complement of B, and a its number; let B' = B - A, or B' = B + A; and A', the first five figures of B', may be had in table 4, with a' its number; put A' as an integer, and let  $\Delta$  be the remaining figures of B'; x the complement of  $\Delta$  to D'; d', d'', d''', the 1st, 2d, 3d differences of the numbers in the same line with a';  $f = d'' - \frac{1}{2} d''' \times x + 1$ : then the number b', whose logarithm is B', will be

```
\overline{d' \times \Delta + a'} \times a = ab' \text{ to 11}
  \frac{\overline{d-\frac{1}{2} \times d'' \times \Delta + a'}}{} \times a = ab' \text{ to } 16  places of figures nearly.
  \overline{d' - \frac{1}{2} \times f} \times \Delta + a' \times a = ab' \text{ to } 19
 Ex. Given B = 4.46372,61172,07184,15204, to find b its number.
                                      a = 29.
    Let A = 1.46239,79978,98956,08733.
 B = B - A = 5.00132,81193,08228,06471.
                                      A' = 00132
\Delta = 0.81193,08228,06471; x = 0.18806,91772; x + 1 = 1.18807;
l = 23096, 20835, 34589; d'' = 53181, 59733; d''' = 1.22457.
     53181,59733
         ₹ x f ...... 5000,86402
             10030,44036,01963,96855
                            10030,62788,50248,82626
                      0-00029,08882,08665,72159,6154
```



### 142 DESCRIPTION AND USE OF THE TABLES.

```
Or, given B = 4.46372,61172,07184,15204, to find b.
     = 2.53655,84425,71530,11205.
                          a = 344.
B' = B + A = 1.00028,45597,78714,26409.
                         A' = 00028.
\Delta = 0.45597,78714,26409; x = 0.54402,21286; x + 1 = 1.54402;
d' = 23040,96629,91521; d'' = 53054,39634; d''' = 1.22163.
    d 53054,39634
    23040,96629,91521
    a' ...... 10006,44931,70511,67281
      10006,55437,81008,22908
    b = \frac{b'}{a} ...... 0.00029,08882,08665,72159,616
```

# OF THE TABLES FOR LOGARITHMS TO SIXTY-ONE PLACES.

THESE are tables 5 and 6, from page 203 to page 207; the former containing the natural numbers in regular order from 1 to 100, and after that all the primes up to 1100, with their corresponding logarithms, to sixty-one places of figures; and the latter in page 207 contains all numbers in order from 999980 to 1000020, with their logarithms, to sixty-one places, as also the 1st, 2d, 3d, and 4th differences of these logarithms. And the use of these tables, in finding the logarithm to any number, or the number to any logarithm, each to sixty-one places of figures, will be as follows.

# 1. Any Number being given, to find its Logarithm to 61 Places of Figures.

. F the given number be in either of the tables, its logarithm is found in the line even with it.

When the given number is the product or quotient of any two or more numbers found in the tables, the sum or difference of their logarithms is the logarithm of the given number.

When the given number is not in either table, or is not the product or quotient of any there, then divide 9999980000000 by the first

nearest number to the quotient so composed, will for the most part be a factor for multiplying the given number, to make the first six or seven figures of the product, with the residue as a decimal, near one of the numbers in table 6, whose logarithm is there given; and the logarithm of the fraction made by the product and that number (found by the series in page 109) added, if the product be the greater, When the given number is not in either table, or is not the product or quotient of any there, then divide 999998000000 by the first six figures of the given number; the quotient, if composed by the multiplication, or division, or both, of any numbers in table 5, or the or subtracted, if the less, will give the logarithm of the product; then subtracting the logarithm of the factor, the remainder is the more figures thereof the same as those of the given number, or of some product of it made by one or but if no such product can be had, then seek for some product composed of numbers in the tables, as logarithm of the given number; shall have the first six, seven, or

more of the said numbers, by which its logarithm will be found as before.

Let the logarithm of (II) 3·14159,26555,89793,25846,26435,83279,50288,41971,69399,37510,58209,74944,59230 (the circumference of a circle whose diameter is 1, or the measure of the arc of 180 deg. when the radius is 1) be sought, and thereby the logarithm of (M) the measure of the arc of 1 minute.

99998000000 divided by 314159 quotes 318310 nearly, which (being composed of 229 × 1390) is a fit multiplier for the number 3.14159 &c, whose product 1000000-35756,41670,83735,04401,53316,98563,06880,09915,15089,93387,45346, 13&c suits very well, But if no such product could have been found, or that it is known, the product of some others (as 313 x 271 divided by 27) will suit nearer, and shorten the operation: instead of the multiplier 318310, take 27, then the product is 84.82300, being nearest 1000000 in table 6.

6+a = 169.64600,16469,24417,4384,13713,48546,57787,33255,73783,12785,71663,23504
A <sup>3</sup> 3,04978,24842,80129,87165,70018,85854,85688,4986
♣A³
∮A¹
Natural locarithm of b

38&c gives Briggs's logarithm of  $\frac{b}{a}$ 

This multiplied by 0 86858,896

23

216,080009

99**%,196813** 196,959683 1406,236505

Log. of (M) 0.00029,08882&c ................................. 6.46372,61172,07184,15203,87067,89076,56689,25149,11968,88413,77890,230018 Note, The index of this last logarithm being - 4, its complement (b) is set down, that it may be like those of the log. sines, tan-

Lag. of 10800 (=log. of 180+log. of 60) sabtract 403342,37554,80449,70231,25014,99214,33198,11367,66355,49610,46771,104518

2. Any Logarithm being given, to find its corresponding Number to 61 Places of Figures.

If the given logarithm be not in the tables, then find the first seven or eight figures of the number by any other table of logarithms; and if six or all of them be the component of numbers in these tables, it will suit very well; but if not, the nearest number thereto, either greater or less, composed of these numbers, will do; for the logarithm of such component is had in these tables; then the number answering to the difference of the two logarithms (found by Dr. Halley's rule in page 110, for finding the number from the log. given) If the given logarithm be in either of the tables, its number is found in the same line prefixed, multiplied by that component, gives the number sought.

Let the example be to find the number represented by 1.00 Tes, or the amount of one pound for one day, at the rate of 6l. per cent.

The log, of 1.06 (= log. of 0.53 + log. of 2)... 0.02530,58652,64770,24084,67311,96351,74961,94636,92282,75704,63219,045305 To which the nearest number of six figures (found in the first or general table) answering, though greater, composed of numbers in table 5, is 1-00016 (=7.6 × 0.47 × 0.28) = b. ber ann. compound interest.

og. of b (= log of 7.6 + log. of 0.47 + log. of 0.28) = 0.00006,94815,58728,03751,77247,12096,73825,86672,64357,09684,49976,891911 This multiplied by m = 2-\$0258 &c. predoces = 1 = 0-00000.05465&c = 4.

If it be required to find the number represented by 1.05 163, or the amount of one pound for one day at the rate of 51. per cent.

The log. of 1.05 (= log. of 0.21 + log. of 5) = 0.02118,92990,69938 &c., and  $\frac{1}{2}$  thereof is 0.00005,80528,74164 &c., = L, to which the nearest number of eight figures answering, but less, composed of numbers in table 5, is 1.0001334 (= 1.51 × 0.83 × 0.42 ×

1.9) = a; this will converge swifter than the preceding. Such expedients may be found for most numbers that can be proposed.

Note, Of any number produced between the numbers in table 6, the logarithm may be most easily had to 30 places, by the several differences annexed.

# OF THE TABLE OF HYPERBOLIC LOGARITHMS.

This is table 7, in pages 208 - - - 211, which contain the series of numbers 1.01, 1.02, 1.03, &c, to 10.00, with their hyperbolic logarithms to seven places of figures. They are so called because they square the asymptotic spaces of the right-angled hyperbola; and they are very useful in finding fluents, and the sums of infinite series. The table, as well as the following rules, were first given at the end of Simpson's fluxions, but they were rendered much more correct in the French edition of Gardiner's tables, printed at Avignon in 1770, being very incorrect in the last figure in Simpson's book. But both those books are very erroneous in the example for finding logarithms by the table.

### 1. When the given Number is between 1 and 10.

From the given number subtract the next less tabular number, divide the remainder by the said tabular number increased by half the remainder; add the quotient to the logarithm of the said tabular number, and the sum will be the logarithm of the number proposed.

Ex. To find the hyperbolic logarithm of 3.45678. Here the next less 3.45339) .00678 (.0019633 number is 3.45, and its logarithm 1.2383742, the remainder or dividend log. 1.2403375 .00678, its half 339, which joined to

the tabular number 3.45, gives the divisor; the quotient .0019633 added to the tabular logarithm 1.2383742, gives 1.2403375 the required logarithm of 3.45678.

# 2. When the given Number exceeds 10.

Find the logarithm of the number as above, supposing all the figures after the first to be decimals, then to that logarithm add 2.3025851, or 4.6051702, or 6.9077553, &c, according as the given number contains 2, or 3, or 4, &c, places of integers. That is, add 2.302585092994 multiplied by the index of the power of 10, by which the given number was divided to bring it to one integer, or within the limits of the table.

Ex. To find the hyperbolic logarithm of 345.678.

This number divided by 100 or 10<sup>2</sup>, to bring it within

1.2403375
the limits of the table, or removing the decimal point
two places, gives 3.45678, the logarithm of which as
above found is 1.2403375, to which adding 4.6051702
the hyperbolic logarithm of 100, the sum is 5.8455077 the hyperbolic logarithm required of 345.678.

Note, The hyperbolic logarithm of any number may be also found from Briggs's logarithms, viz. multiplying Briggs's logarithm of the same number by the hyperbolic logarithm of 100 viz.

Multiplying by - - - - 2.30258,50929,94045,68401,79914, Or dividing by its reciprocal 43429,44819,03251,82765,11289.

### OF THE LOGISTIC LOGARITHMS.

These are in table 8, pages 212 - - 216, which contain the locatic logarithm of every second as far as the first 80' or 4800".

The logistic logarithm of any number of seconds is the difference between the logarithm of 3600" and the logarithm of that number of seconds.

The chief use of the table of logistic logarithms, is for the ready computing a proportional part in minutes and seconds, when two terms of the proportion are minutes and seconds, hours and minutes, or other numbers.

When two terms of the proportion are common numbers, their common logarithms may be used instead of their logistic logarithms, putting the logarithm where its complement should be, and the contrary.

1. To find the Logistic Logarithm of any Number of Minutes and Seconds, within the Limits of the Table.

At the top of the table find the minutes, and in the same column, even with the seconds on the left-hand side, is the logistic logarithm.

Note, When hours are made any terms of the proportion, they are to be taken as if they were minutes, and the minutes of an hour as if they were seconds.

2. To find the Logistic Logarithm of any Number not exceeding 4800.

In the 2d row, next the top of the table, find the number next less than that given; then in the same column, even with the difference on the left-hand side, is found the logistic logarithm.

When two given terms of the proportion are common numbers, one or both greater than 4800, take their halves, thirds, &c, instead of them. But when only one of the given terms is a common number, and that greater than 4800, take its half, third, &c, and multiply the 4th term by 2, 3, &c.

The logistic logarithms in this table are all affirmative, as well above as below 60'; but the index of those above 60' is — 1; below 60' down to 6', the index is 0; and below 6', the indices (being either 1, 2 or 2) are approach in the table.

3 or 3) are expressed in the table.

### EXAMPLES.

As 60', -	- lo. log.	As 60' -	- lo. log.	As 60' -	- lo. log.
To 46 12"	<b>-</b> 0·1135	To 78' 27"	- 1.8836	To 1531	- 0.3713
So 8 7	- 0.8688	So 13 53	- 0.6357	So 40' 12"	- 0.1135
To 6 15	- 0.9823	To 18 9	- 0.5193	То 1179	- 0.4848
As 46' 12"	co. 1.8865	As 78' 27"	co. 0·1164	As 40' 12"	co. 1.8865
To 60 0	- 0.0000		- 0.0000	To 1179 -	- 0.4848
So 6 15	- 0.9823	So 18 9	- 0·5193	So 60' 0"	- 0.0000
To 8 7	- 0.8688	To 13 53	- O·6357	To 1531 -	- 0.3713
As 60' -	co. 0.0000		co. 1·6021	As 24h -	co. 1.6021
To 4721 -	- 1.8823	To 46' 11"	- 0.1137	To 76' 34"	- <del>1</del> .8941
So 37' 28"	- 0.2045	So 8h 7' -	<b>- 0.8688</b>	So 13h 53'	- 0.6357
To 2948 -	- 0.0868	To 15. 37"	- 0.5846	To 44′ 17″	- O·1319
As 4721 -	co. 0·1177	As 46' 11"	co. 1.8863		co. 0·1059
To 60' 0"	- 0.0000	To 24 <sup>h</sup>	- 0.3979	To 24 <sup>h</sup> -	- 0.3979
So 2948 -	<b>-</b> 0.0568	So 15' 37"	- 0.5846	So 44' 17"	- 0.1319
To 37' 28"	- 0.2045	To 8h 7'	- 0·8688	To 13h 53'	- 0.6357

The logistic logarithms may conveniently be used in trigonometrical operations, when two of the terms are small arcs, with the logarithmic sines or tangents of other arcs; observing, that instead of the logarithmic sine or tangent, to take the complement of their logistic logarithm; and the contrary.

But this may be as readily and more naturally done by the logarithmic sines and tangents themselves of such small arcs, as taken from the next following table of sines and tangents for every second of the

first 2° or 120'.

# OF THE LOGARITHMIC SINES AND TANGENTS TO EVERY SECOND.

Table 9, pages 218 - - 247, contains the log. sines and tangents for every single second of the first 2 degrees of the quadrant; the sines being placed on the left-hand pages, and the tangents on the right. The degrees and minutes are placed at the top of the columns, and the seconds on the left-hand side, of each page, the logarithmic sine or tangent being found in the common angle of meeting. So of 1° 52′ 54″ the log. sine is 8.5163420, and the log. tangent 8.5165762.

The same numbers are also the cosines and cotangents of the last 2 degrees of the quadrant, those degrees with their minutes being placed at the bottom of the columns, and their seconds ascending

on the right-hand side of the pages. So the cosine of 88° 7' 6" is

85163420, and its contangent 8.5165762.

When it is required to find the sine or tangent &c to 3ds &c, or my other fractional part of a second, subtract the tabular sine or tangent of the complete seconds from the next to it in the table, and take the like proportional part of the difference; which part abled to, or taken from, the said tabular sine or tangent, according as it is increasing or decreasing, will give the sine or tangent required.

Er. To find the log. sine of 1° 52′ 54″ 25″ or 1° 52′ 54″ 25 or 5

Here the sine of 1° 52′ 54″ then from the next leaves 61, which multiplied by 5 and divided by 12, or multiplied by 25 and divided by 15, gives 267 the pro. part; the added to the first sine gives 61 which was required.

1° 52′ 54″ sine 8·5163420 1 52 55 - 8·5164061 dif. 641 5 12)3205 pro. part. 267 1° 52′ 54″ - 8·5163420 1° 52′ 54″ 25‴ 8·5163687

On the contrary, if a sine or tangent be given, to find the correpending arc; take the difference between it and the next less tabula number, and the difference between the next less and greater
their numbers, so shall the less difference be the numerator, and
the greater the denominator, of the fractional part to be added to the
set of the less tabular number; which fraction may also, if required,
the either turned into a decimal, or into 3ds &c, by multiplying the
tenerator by 60, and dividing by the denominator.

### Ex. To find the arc whose sine is 8.5163900,

Finding the number is between the incs of 1° 52′ 55″ and 1° 52′ 54″, the the differences between the sines in the margin, and the differences five the fraction of a second, and the differences to the fraction of a second, are the fraction of the fract

1° 52′ 55″ - 8·5164061 1 52 54 - 8·5163420 1 52 54 45″ 8·5163900 diff. - - 480 diff. - - 641

=45"; and therefore the arc sought is 1° 52′ 54″ 45″.

Where the 1st differences of the sines and tangents alter much, as the beginning of the table, the 2d, 3d, &c, differences may be then in, and then the logarithmic sine or tangent will be expressed by this series, viz.

$$e=x+xp'+x.\frac{x-1}{2}p''+x.\frac{x1-x-2}{2}p'''$$
 &c, or nearly  $x+p'-\frac{1}{2}p''.x$ ;

where A is the next less tabular logarithm, D', D'', D''', &c, the 1st, 2d, &c, differences of the tabular logarithms, and x the fractional part of the arc over the complete seconds.

Ex. To find the log. tangent of 5' 1" 12" 24"" or 5' 1"  $\frac{62}{300}$  or 5' 1" 206.

Tang.

5' 0" - 7.1626964

5 1 - 7.1641417

5 2 - 7.1655821

5 3 - 7.1670178

Tang.

D'

and the mean 2d diff. D' = -48. Hence D'' = -48. Hence

Therefore the tangent of 5' 1"  $12^{m} 24^{m}$  - - -  $7 \cdot 1644398$ 

And on the other hand, when the sine or tangent is given, and falls near the beginning of the table, from the same series we may find x the fractional part of a second. For suppose it be required to find the arc whose tangent is 7·1644398. This falling between the tangents of 5' 1" and 5' 2", take the differences, &c, as above, and the series gives 7·1644398 = 7·1641417 + x D' + x.  $\frac{x-1}{2}$  D"; or 2981 = 14404 x — 24.  $x^2$  — x, or — 24  $x^2$  + 14428 x = 2981; which gives  $x = \cdot 2067$ " nearly =  $12^{11} \cdot 24^{111}$ . Therefore the arc required is 5' 1"  $12^{11} \cdot 24^{111}$ . Or rather the approximate value  $x + \frac{1}{2} \cdot \frac{1$ 

OF THE LARGE TABLE OF NATURAL AND LOGARITH-MIC SINES, TANGENTS, SECANTS, AND VERSED SINES.

Table 10, page 248 - - - - 337, contains all the sines, tangents, secants, and versed sines, both natural and logarithmic, to every minute of the quadrant, the degrees at top, and minutes descending down the left-hand side as far as 45°, or the middle of the quadrant, and from thence returning with the degrees at the bottom, and the minutes ascending by the right-hand side to 90°, or the other half of the quadrant, in such sort, that any arc on the one side is on the same line with its complement on the other side; the respective sines, cosines, tangents, cotangents, &c, being on the same line with the minutes, and in the columns signed with their respective names, at top when the degrees are at top, but at the bottom when the degrees are at the bottom. The natural sines, tangents, &c, are placed all together on the left-hand pages, and the logarithmic ones all together, facing them, on the right-hand pages. Also in the naturals there are two columns of the common differences, and in the logarithmic 3 columns of common differences, each column of differences being placed between the two columns of numbers having the same differences; so that these differences serve for both their right-hand and left-hand adjacent columns: also each differential number is set opposite the space between the numbers whose difference it is. The numbers on the same line in those columns having such common differences, are mutually complements

of each other; so that the sum of the decimal figures of any two such numbers, is always I integer, with 0 in each place of decimals.

All this will be evident by inspecting one page of each sort, as well as the method of taking out the sine, &c, to any degrees and complete minutes. It is however to be observed, that in all the log. sines, tangents, &c, and in such of the natural as have any significant figure for their index or characteristic, the indices are expressed in the table, and the separating point is placed between the index and the decimal part of the number; but in several columns of the natural sines, &c, having 0 for their integer or index, both the index and decimal separating point are omitted; and wherever this is the case, it is to be understood that all the figures in such columns are decimals, wanting before them only the separating point and index 0.

The sine, tangent, or secant of any arc, has the same value, or is expressed by the same number, as the sine, tangent, or secant of the supplement of that arc; for which reason the tables are carried only to a quadrant or 90 degrees. So that when an arc is greater than 90°, subtract it from 180°, and take the sine, tang. or secant of the remainder, for that of the arc given. But this property does not take place between the versed sines of arcs and their supplements: and to find the versed sine of an arc greater than 90°, proceed thus: in the natural versed sines, to radius add the natural cosine, the sum will be the natural versed sine; and in the log. versed sines, add 0.3010300 to twice the log. sine of half the arc, the sum, abating radius 10.00000000, will be the log. versed sine required.

# 1. Given any Arc; to find its Sine, Cosine, Tangent, &c.

Seek the degrees at the top or bottom, and the minutes respectively on the left or right; then on the same line with these is the sine, &c, each in its proper column, the title being at the top or bottom, accord-

ing as the degrees are.

But when the given arc contains any parts of a minute, intermediate to those found in the table: take the difference between the tabular sines, &c, of the given degrees and minutes, and of the minute next greater; then take the proportional part of that difference for the parts of the minute, and add to it the sine, tangent, secant, and versed sine, or subtract it from the cosine, cotangent, cosecant, or coversed sine, of the given degrees and minutes; so shall the sum or remainder be the sine, &c, required.

Note, The proportional part is found thus, as 1' is to the given intermediate part of a minute, so is the whole difference to the proportional part required; which therefore is found by multiplying the difference by the said intermediate part. Also that intermediate part may be expressed either by a vulgar fraction, or a decimal, or a sexagesimal in seconds, thirds, &c, and the fraction or sexagesimal

may be first reduced to a decimal, if it be thought better so to do, by dividing the numerator of the fraction by the denominator, or by dividing the sexagesimal by 60.

### EXAMPLES.

7. To find the natural sine of 1° 48′ 28″ 12″.

In the column of difference between the natural sines of 1° 48' and 1° 49' is the difference 2907; and 28" 12" being =  $28 \cdot 2$ " = '47'; therefore as 1:2907:: '47: the pro. part +1306 to which add sin. 1° 48' 0314168 makes sin. of 1° 48' 28" 12"  $\overline{0315474}$ 

3. To find the nat. coversed sine of 4° 6′ 5″ 40″.

1:2902 (tab. dif.): 
$$\frac{17'}{180} =$$
 \_\_274  
5" 40": pro. part - } \_\_274  
4° 6' covers - 9285026  
4° 6' 5" 40" - 9284752

5. To find the log. sec. of 7° 12′ 50″. 1:160tab.dif.:: $\frac{1}{8}$ '=50″: pr. pt. +133 7° 12′ secant - 10.0034381 7° 12′ 50″ - 10.0034514

2. To find the natural tangent of 8° 9′ 10″ 24″′
8° 10′ tang. - 1435084
8 9 - 1432115
diff. 2969
1:2969::(10″ 24″=)·17′ 1: +515

4. To find the logarithmic cosine of 6° 8' 42"

1:136(tab.dif.)::·7'=42": pr.pt.-95, 6° 8' cosine - 9.9975069 6° 8' 42" - - 9.9974974

6. To find the logarithm cotangent of 39 • 4' 12" 20".

1: 2581 tab. dif.::  $20\frac{5}{9}$  = } \_\_531 12" 20"": pro. part. } \_\_531 39° 4' cotan. - 10-0905978 39° 4' 12" 20"' - 10-0905447

The foregoing method of finding the proportional part of the tabular difference, to be added or subtracted, by one single proportion, is only true when those differences are nearly equal, and may do for all except for the tangents and secants of large arcs near the end of the quadrant in the natural sines, &c, and in the log. sines, &c, except the sines and versed sines of small arcs, the tangents of both large and small arcs, and the secants of large arcs. And when much accuracy is required, these excepted parts may be found by the series used in the last article, viz.  $Q = A + x D' + x \cdot \frac{x-1}{2}D'' + x \cdot \frac{x-1}{2}D'' + x \cdot \frac{x-2}{3}D'''$  &c. or  $A + x \cdot \frac{x-1}{2}D'' \cdot x$  nearly; where

A is the tabular number for the degrees and minutes, D', D'', Ec, the 1st, 2d, 3d, &c tabular differences, and x the fractional part over the complete minutes, &c; at least it may be proper to find the tangents and secants of very large arcs from this series; but as to the log. sines, versed sines, and tangents of small arcs, they may also be found, perhaps easier, from their corresponding natural ones, viz. find the natural sine, versed sine, or tangent

of the given small arc, and then find the log. of such natural number by the 1st or large table of logarithms, which will be the log. sine, &c, required. And the log. tangent and secant of large arcs will be also found by taking the difference between 20 and their log. cotangent and cosine respectively. And lastly, the natural tangents and secants of large arcs may also be found by first finding their log. tangent and secant, and then finding the corresponding number.

### EXAMPLES.

To find the log. sine of 1° 48′ 28″ 12″. 2. To find the log. vers. of 1° 48′ 28″ 12″. The natural sine, found in Ex. 1, above is 1° 48′ nat. vers. - - - 0004934 215474; and the log. of this is 8.4989635 1:92 tab. dif.::47′ == 28″ 12‴: + 43 1: 48' nat. vers. - - 0004934 1: 92 tab. dif.:: '47' = 28" 12": + 43 1° 48′ 28° 12″ nat. vers. - '0004977 Its log. 1 48 28 12 log. vers. 6:0969676 hich is the log. sine required. 1. To find the log. tang. of 2° 25' 33" 36". 4. To find the log. tang. of 87° 36' 26" 24". Its complement is - - 2 23 33 36 Whose log. tang. in Ex. 3 is 8.621012 2º 23' its nat. tan. - - 0416210 2° 23' its nat. tan. - 0410210 1:3014 tab. dif.:::56' = 33" 56"': 4 1632 2° 23' 33" 36"' nat. tan. - 0417842 hing 2 23 33 36 log. tang. 8'6210121 8-6210121 Taken from - - - -20-0000000 Leaves log. tan. 87° 36' 26" 24" 11.3789879 6. To find the nat. sec. of 88° 11' \$1" 48". To find the log. sec. of 88° 11' 31" 48". Hence A = 31.544246; D' = 291979; D' = 5310; the mean D'' = 146;  $x = .53' = 31'' 48'''; x.\frac{x-1}{9} = -.12455;$ the 6th example, the natural secant  $\frac{x-2}{x-2} = .06125.$ Heating. But by taking the number to be superitum of it, as found in the 5th H-08539. 31-544246 e, it is 31-698355; which seems to -664

ample, it is 31-698353; which seems to be shore accurate, as well as the easier of its in some instances, more troument, and less accurate, than finding the second by dividing 1 by the cosine.

51-698559

### 2. Given any Sine, Tangent, &c. to find its Arc.

Take the difference between the next less and greater tabular numbers of the same kind, and the difference between the given number and said next less or next greater tabular number, according as the given number is a sine, tangent, &c, or a cosine, cotangent, &c, noting its degrees and minutes; then the two differences will be the terms of a vulgar fraction of a minute, to be added to those minutes, to give the arc required.

And this vulgar fraction may also, if required, be reduced to a decimal by dividing the less or numerator by the denominator, or brought to sexigesimals, by multiplying by 60, &c. Also, where the tabular differences are printed, the subtraction of the less tabular number from

the greater is saved.

### **EXAMPLES.**

1. To find the arc to the natural sine | 3. To find the arc to logarithm cosine **0315474.** 9.9974974. Ans. 1° 48' 28" 12" 0315474 9.9975069 Answer 6° 8′ 42″ Subtr. 1 48' next less 0314108 9.9974974 1366 95 **50** 60 Tab. diff. - 2907 ) 81960 ( 28" Tab. difference 136)5700 5814 **544** 23820 260 23256 564 60 2907 ) 33840 ( 12<sup>m</sup> 4. To find the arc to logarithm cot. 10.0905447. 2. To find the arc to natural tang. 300 4' 10.0905978 ·1432630 Ans. 39° 4′ 12" 20" 10-0905447 Next greater 1435084 331 Ans. 8° 9′ 10″ 24‴ Next less, subt. fr. each 1432115 60 Tab. difference 2581 ) 31860 ( 12° 515 60 2581 Tab. difference 2969 ) 30900 ( 10" 6050 5162 29690 1210 888 60 **60** 2581 ) 53280 ( 20= 72600 ( 24\*\* 5162 **5938** 13220 1660

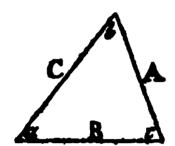
The above method of proportioning by the first difference alone, can only be true when the other differences are nothing, or very small; but other means must be used when they are large, viz. for the natural tangents and secants of very large arcs; and for the logarithmic sines, and versed sines of small arcs, also the log. secants of large arcs, with the log. tangents and cotangents both of small and large arcs. When the log. sine, versed sine, or tangent of a small arc is given, by means of the table of logarithms find the corresponding natural number, and then the arc answering to it in the table of natural sines, &c. But when the log. tangent or secant of a large arc is proposed, subtract it from 20, the remainder is the log. cotangent or cosine, which will be the log. tangent or sine of a small arc which is the complement of that required, which complement will be found as in the last remark, by taking the corresponding natural number, and finding it in the natural tangents or sines; then subtracting that complemental arc from 90°, leaves the required large arc answering to the proposed log. tangent or secant. And when the natural tangent or secant of a large arc is proposed, change it into the log. tangent or secant of the same, by taking the log. of the proposed natural number; then proceed with it as above in the last remark.—Or, what relates to the log. sines and tangents of small arcs, or cosines and cotangents of large ones, will be best performed by the foregoing table for every second of the first 2 degrees.

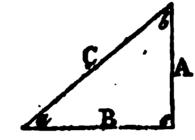
### EXAMPLES.

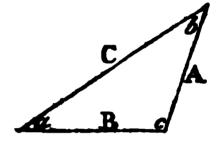
```
1. To find the arc to natural tangent | 2. To find the arc to natural secant
          50·0000000.
                                               31.6983333.
                       20.0000000
                                                            20.000000
Given 50-0000000 its log. 11-6989700
                                   Given 31.698 its log.
                                                            11.5010365
                                         ·0315474
                        8.3010300
                                                             8·4989635
    '0197830 nat, tan. of 1° 8'
                                         *0314108 nat, sine of 1° 48'
        2170
                                             1366
           60
                                                60
2910 ) 130200 ( 44"
                                    2907 ) 81960 ( 28"
      1164
                                            5814
                                            23820
       1380
       1164
                                            23256
        216
                                              564
         60
                                               60
      12960 ( 44"
                                            33840 ( 12"
      1164
                                            2907
       1320
                                             4770
Hence from -
                     90° 0′ 0′′ 0′′′ Hence from -
                                                          90. 0, 0, 0,
Take the comp. -
                                   Take the comp.
                         8 44 44
                                                           1 48 28 12
Leaves are required
                    88 51 15 16
                                   Leaves arc required
                                                        88 11 31 48
```

### TRIGONOMETRICAL RULES.

1. In a right-lined triangle, whose sides are A, B, C, and their opposite angles, a, b, c; having given any three of these, of which one is a side; to find the rest.







Put s for the sine, of the cosine, t the tangent, and t the cotangent, of an arch or angle, to the radius r; also L for a logarithm, and L' its arithmetical complement. Then

Case 1. When three sides A, B, C, are given.

Put  $P = \frac{1}{2}$ . A + B + c or semiperimeter.

Then s. 
$$\frac{1}{2}c = r\sqrt{\frac{(P-A)\times(P-B)}{A\times B}}$$
.

And s'. 
$$\frac{7}{4} c = r \sqrt{\frac{P \times (P-C)}{A \times B}}$$
.

L. S. 
$$\frac{1}{2}c = \frac{1}{2}$$
. (L.  $P-A + L P-B + L'A + L'B$ ).  
L' S.  $\frac{1}{2}c = \frac{1}{2}$ . (L.  $P + L P-C + L'A + L'B$ ).

Note, When A = B, then

s. 
$$\frac{1}{3}c = \frac{c}{A} \times \frac{r}{2}$$
. And  $\frac{r}{3} = \frac{c}{A^2 - \frac{1}{3}c^2}$ .

Cuse 2. Given two sides A, B, and their included angle c.

Put  $s = 90^{\circ} - \frac{1}{2}c$ , and t.  $d = \frac{A-B}{A+B} \times t$ ;

then a = s + d; and b = s - d. And

$$c = \sqrt{\left(\frac{4AB \times S^2 \frac{7}{2}C}{rr} + \frac{1}{A-B}\right)^2}.$$

Or in logarithms, putting L Q = 2L. (A-B). and L B = L. 2A + L. 2B + L

2L. s.  $\frac{1}{2}c-20$ ,

then L.  $c = \frac{1}{2} L. (Q+R)$ .

If the angle c be right, or =  $90^{\circ}$ ; then

$$t. a = \frac{\Lambda}{B} r; t. b = \frac{B}{\Lambda} r;$$

$$c = \frac{r}{s.a}A$$
, or  $= \frac{r}{s.b}B$ , or  $= \sqrt{A^2 + B^2}$ .

If 
$$A = B$$
; then  $a = b = 90^{\circ} - \frac{1}{4}c$ , and  $c = \frac{s \cdot \frac{1}{4}c}{r} \times 2A$ 

Case 3. When a side and its opposite angle are among the terms given.

Then  $\frac{A}{s.a} = \frac{B}{s.b} = \frac{C}{s.c}$ ; from which equations any term wanted may be found.

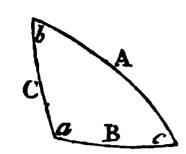
When an angle, as a, is 90°, and A and c are given, then

$$B = \sqrt{(A^2 - C^2)} = \sqrt{(A + C) \times (A - C)}.$$
And L. B =  $\frac{1}{2}$  (L. A + C + L. A - C).

Note, When two sides A, B, and an angle a opposite to one of them, are given; if A be less than B, then b, c, c, have each two values; otherwise, only one value.

ic triangle, whose three sides are A, B, C, and their opposite angles, a, b, c; any three of these six terms being given, to find the rest.





ren the three sides A, B, C. perim. or  $P = \frac{1}{4}(A+B+C)$ .  $: T \checkmark \frac{s. (P-A) \times s. (P-B)}{s. A \times s. B}.$  $: \tau \sqrt{\frac{8. P \times 8. (P-C)}{8. A \times 8. B}}.$ P-A+L. S. P-B+L'S. A+L'S. B) P+LaP-C+L'S.A+L'S.B). for the other angles.

Fiven the three angles.

$$\frac{s'p \times s'(p-c)}{s. \ a \times s. \ b}. \text{ And}$$

$$\frac{s'(p-a) \times s'(p-b)}{s. \ a \times s. \ b}.$$

s'p + L s'p - c + L's.a + L's.b)1' p-a + 1. 5' p-b + 1's. a+1's.b) for the other sides.

sign 7 signifies greater than, ian; also of the difference.

en A, B, and included angle c. igle a opposite the side A, let : t. m, like or unlike A, as c is ; also  $N = B \infty M$ :

 $\mathbf{m}$ : t. c: t. a, like or unlike 28 1 is 7 or ∠ B.

A + B: 8 1. A 00 B:: t' 1c: s フ or ∠ 90°. as A + B is フ or d s.1. A + B: S. A @ B:: t' 1 10°, then a = M + N; and b =

:r:sc::t. a:t.m, like or un-5 7 or ∠ 90°; and N = B x2 M.

Then s'm: s'n::s'a: s'c, like or unlike n

as c is 7 or  $\angle$  90°. Or, s.  $\frac{1}{2}$  c =  $\sqrt{\frac{5. \text{ A} \times 9. \text{ B} \times 8^2 \frac{7}{4} \text{ C}}{\text{Fr}}} + s^2 \frac{1}{2} \cdot \text{Acc B}}$ 

In logarithms, put L Q = 2 L. s. I A 02 B; and L. R == L. S. A + L. S. B + 2 L. S.  $\frac{1}{2}c - 20$ ; then L. s.  $\frac{1}{2}c = \frac{1}{2}L.(Q + R)$ .

Case 4. Given a, b, and included side c.

First, let r: s'c:: t. a: t'm, like or unlike a as c is 7 or  $\angle 90^{\circ}$ ; also  $n = b \omega m$ . Then s'n: s'm:: t. c: t. A, like or unlike nasais 7 or  $\angle 90^\circ$ .

Or, let  $s' \frac{1}{2} \cdot a + b : s' \frac{1}{2} \cdot a \cdot c \cdot b : : t \cdot \frac{1}{2} c : t \cdot M$ , フ or ∠ 90° as a + b is フ or ∠ 180°; and s. \ a + b: s. \ a \circ b:: t. \ c: t. N, 7 90°; then  $A = M \pm N$ ; and  $B = M \mp N$ .

Again, let r: s'c:: t. a: t'm, like or unlike a as c is 7 or  $\angle$  90°; and  $n = b \circ m$ :

then s. m. : s. n : : s' a : s' c, like or unlike a as m is 7 or  $\angle b$ .

Case 5. Given A, B, and an opposite angle a.

1st. s. A: s. a:: s. B: s. b, 7 or  $\angle$  90°.

2nd. Let r: s'B:: t. a: t'm, like or unlike Basa is 7 or  $\angle 90^{\circ}$ ;

and t. A: t. B:: s'm: s'n, like or unlike A 88 a is 7 or 4 90°;

then  $c = m \pm n$ , two values also.

3dly. Let r: s'a:: t. B: t. M, like or unlike B as a is 7 or  $\angle 90^{\circ}$ ;

and s'B: s'A:: s'M: s'N, like or unlike A as a is 7 or  $\angle 90^{\circ}$ ;

then  $c = u \pm n$ , two values also.

But if A be equal to B, or to its supplement, or between a and its supplement; then is b like to B: also c is  $= m \pm n$ , and c = M + N, as B is like or unlike a.

Case 6. Given a, b, and an opposite side A
1st. s. a: s. A.:: s. b: s. B, 7 or  $\angle$  90°.

2nd. Let r: s'b:: t. A: t. m, like or unlike

b as A is 7 or  $\angle$  90°;

and t. a: t. b:: s. m.: s. N, 7 or  $\angle$  90°:

then  $c = m \pm n$ , as a is like or unlike b.

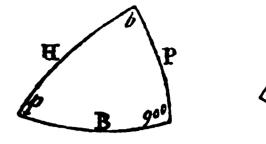
Sdly. Let r: s'A:: t.b: t'm, like or unlike b as A 7 or  $\angle$  90°;

and  $s'b: s'a:: s. m: s. n, 7 \text{ or } \angle 90^\circ:$  then  $c = m \pm n$ , as a is like or unlike b.

But if A be equal to B, or to its supplement, or between B and its supplement; then B is unlike b, and only the less values of N, R, are possible.

Note, When two sides A, B, and their opposite angles a, b, are known; the third side c, and its opposite angle c, are readily found thus:

A f a co b: s. f. a + b:: t. f. a co b: t. f. c. a.f. A co B: s.f. A + B:: t.f. a co b: t. f.c.



III. In a right-angled spherometer H is the hypotenuse, or the right angle, B, P, the other t b, p, their opposite angles; any five terms being given, to find cases, with their solutions, are lowing table.

The same table will also a quadrantal triangle, or that we side = 90°, it being the angle that side, is, if the other two sides p, their opposite sides: observing to take its supplement: or exchanging the terms like and so other where its concerned, value is taken.

Case	Given	Req	solutions.
1	н. В	b p P	s. H: $r$ :: s.B: s.b, and is like B $r$ : t.H:: t.B:s'.p}, $r$ or $\angle$ 90° as H is like or s'.B: $r$ :: s'.H:s.P}
2	В	B P P	r : s.H : : s.b : s.B, like $br : s'.b : : t.H : t.P}, 7 or \angle 90^{\circ} as H is like of$
3	В	H P P	s.b: $r$ :: s.B:: s.H r: t.B:: t'.b:: s.P s'.B: $r$ :: s.b:: s.P , each $\neq$ or $\angle$ 90°; both y
4	» p	H b P	$r: t'.B: : s'.p: t'.H, 7 \text{ or } \angle 90^{\circ} \text{ as B is like or } u$ $r: s'.B: : s.p: s'.b, \text{ like } B$ $r: s.B: : t.p: t.P, \text{ like } p$
5	B P	H b p	r: s'.B:: s'.P: s'.H, \( \text{ or } \cap 90^\circ \text{ as B is like or use } r: s.P:: t'.B: t'.b, like B \( r: s.B:: t.P: t.p, like P \)
6	P b	H B P	r: t'.b:: t'.p: s'.H, 7 or \( \) 90° as b is like or unl s.p: r:: s'.b: s'.B, like b s.b: r:: s'.p: s'.P, like p

The following Propositions and Remarks, concerning Spherical Triangles, (selected and communicated by the Reverend Nevil Maskelyne, D. D. Astronomer Royal, F. R. s.) will also render the Calculation of them perspicuous, and free from Ambiguity.

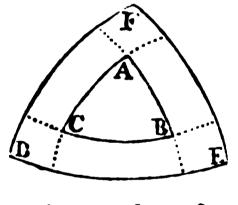
I. A spherical triangle is equiliberal, isoscelar, or scalene, accordin large as it has its three angles all equal, are two of them equal, or all three inequal; and vice versa.

2. The greatest side is always opposite the greatest angle, and the in tradlest side opposite the smallest

3. Any two sides taken together, are greater than the third.

4. If the three angles are all acute, er all right, or all obtuse; the three sides will be, accordingly, all less than 90°, or equal to 90°, or greater than 90°; and vice versa.

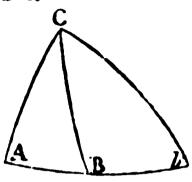
5. If from the three angles A, B, C, of a triangle ABC, as poles, there be described, upon the surface



of the sphere, three arches of a great circle DE, DF, FE, forming by their intersections a new spherical triangle DEF; each side of the new triangle will be the supplement of the angle at its pole; and each angle

of the same triangle, will be the supplement of the side opposite to it in the triangle A B C.

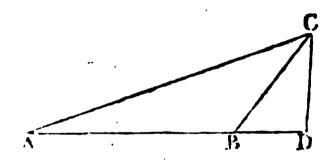
6. In any triangle A B C, or A b C, right angled in A, 1st, The angles at the hypotenuse are always of the same kind



as their opposite sides; 2dly, The hypotenuse is less or greater than a quadrant according as the sides including the right angle are of the same or different kinds; that is to say, according as these same sides are either both acute or both obtuse. or as one is acute and the other ob-And, vice versa, 1st, The sides including the right angle, are always of the same kind as their opposite angles: 2dly, The sides including the right angle will be of the same or different kinds, according as the hypotenuse is less or more than 900: but one at least of them will be of 90°, if the hypotenuse is so."

# THE CASES OF PLANE TRIANGLES RESOLVED BY LOGARITHMS.

IN this and the following solutions of spherical triangles, it is to be observed, that when we say the sine, tangent, &c, we mean the logarithmic sine, tangent, &c, as found by the table.



Prop. I. Having the angles, and one side; to find either of the other sides.

Add the logarithm of the given side to the sine of the angle opposite to the side required, and from the sum subtract the sine of the angle opposed to the given side; the remainder will be the logarithm of the side required.

Example. In the triangle BCD, having the angle CDB 90°. CBD 51° 56′, BCD 38° 4′ and the side BD 197.3; to find the side CD.

2.2951271 log. of 197.3. 9.8061369 sin. of 51.56' 12.1912640 sum 9.7899880 sin. of 38.4 2.4012760 log. 251.9278 cp req.

Or you may add the complement of the sine of the angle opposed to the given side, to the two other logarithms, the sum (abating radius) is the logarithm of the side required; as shown in art. 3 of Log. Arith. And it is to be observed that the complements of the sines in the table are to be found in the columns of the cosecants: for (passing over the first unit) the cosecants of the same arcs are the complements of the same sines. Also the complements of the tangents, are the cotangents.

Example. The sine of 38° 4' being 9.7899880, the cosecant of 38° 4' is 10.2100120, which (omitting the first unit) is the complement of the said sine.

0.2100120 co. of sin. 38° 4′ 2.2951271 log. of 197.3 9.8961369 sin. of 51° 50′ 2.4012760 log. 251.9278, as before.

But if one side and the angles, of a right-angled triangle, be known, and you would have the other side, as in the former example, the operation will be easier thus:

Add the tangent of the angle opposite to the side required, to the logarithm of the given side, the sum (abating radius) is the logarithm of the side required.

10·1061439 tan. 51· 56/ 2·2051271 log. of 197·3 2·4012760 log. 251·9278 as before.

Prop. II. Having two sides, and an angle opposite to one of them; to find the other two angles, and the third side.

Add the sine of the angle given, to the logarithm of the side adjoining that angle, and from the sum subtract the logarithm of the side opposite to that angle, or add its arithmetical comp. the remainder or sum will be the sine of the angle opposite to the adjoining side.

Example. In the triangle A B c, having the side Ac 800, BC 320, and

the angle ABC 128° 4'; to find the angles BAC, ACB, and the side AB.

7.0969100 ar. com. log. 800. 2.5051500 log. of 320. 9.8961369 sin. 128° 4'. 0.4981909 sin. 18 21 BAC.

Having BAC and ABC, the angle act is their supplement to 180°, viz. 39° 35'; and you may find the aide as by the first proposition.

Prop. III. Having two sides and the engle between them; to find the other two angles, and the third side.

if the angle included be a right ingle, add the radius to the logarithm of the less side, and from the sum intract the logarithm of the greater ide, or add its arith. comp.: the reminder or sum will be the tangent of the angle opposed to the less side.

Example. In the triangle scD, having the side BE 197.3, and cD 251.9; bind the angles BCD, CBD, and the side CB.

7.5987728 ar. com. log. 251.9 122951271 rad. + log. 197.3 9.8938989 tan. 36° 4' BCD.

But if the angle included be oblique, add the logarithm of the difference of the given sides to the tangent of half the sum of the unknown angles, and from the sum subtract the logarithm of the sum of the given sides, or add its complement; the remainder or sum will be the tangent of half their difference.

Example. In the triangle ABC, having the side AB 562, BC 320, and the angle ABC 128° 4'; to find the angles MC, ACB, and the side AC.

The sum of the given sides is 882, and the difference 242, the half sum of the naknown angles is 25, 58'.

7.0545314 com. log. 882 2.3838154 log. of 242 9.6875402 tang. 25° 58' 9.1258870 tang. 7 37 25 58 Angle ACB - 33 35 sum, Angle CAB - 18 21 dif.

These 7° 37' being added to 25° 58' the half-sum of the angles unknown, the sum is 33° 35' for the greater angle ACB; and the same 7° 37' being subtracted from 25° 58', the remainder is 18° 21' for the lesser angle CAB. Lastly, knowing the angles, and two sides, the third side may be found by the first proposition.

Prop. IV. Having the three sides; to find any angle.

Add the three sides together, and take half the sum, and the differences betwixt the half-sum and each side: then add the complements of the logarithms of the half-sum, and of the difference between the half-sum and the side opposite to the angle sought, to the logarithms of the differences of the half-sum, and the other sides, half their sum will be the tangent of half the angle required.

Example. In the triangle A B C, having the side AB 562, AC 800, and BC 320; to find the angle ABC.

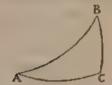
AC =  $800 \, \text{M} = 841 - \text{co.} 7.0752040$ AB =  $562 \, \text{H} - \text{AC} = 41 \, \text{co.} 8.3872161$ BC =  $320 \, \text{H} - \text{AB} = 279 - 2.4956042$ aum  $1682 \, \text{H} - \text{BC} = 521 - 2.7168377$ I sum 841 = H sum 20.6248020Tang. of  $64^{\circ}2' = \text{I} \, \text{sum} \, 10.3124310$ 

Tang. of 64°2'= 1 sum 10.3124310 Whose double 128°4' is the angle ABC.

### THE CASES OF SPHERICAL TRIANGLES RESOLVED BY LOGARITHMS.

THE resolution of spherical triangles is to be performed by the table of sines, tangents, and secants; which we shall show by the 28 propositions following; whereof 16 are of right-angled, and 12 are of oblique triangles; and first

Of right-angled Triangles.



Prop. 1. Having the legs; to find the hypotenuse.

Add the cosine of one leg, to the cosine of the other leg; the sum (a-bating radius) is the cosine of the hypotenuse required.

Example. In the right-angled triangle ABC, having AC 27" 54', and BC 11" 30'; to find As the hypotenuse.

9:9911927 cosin, 11° 30′ 9:0463371 cosm, 27 54 9: 375208 cosm, 30 as req.

Prop. II. Having the two legs; to find either of the angles.

Add the sine of the leg next the angle sought, to the cotangent of the other leg; the sum (abating radius) is the cotangent of the angle required.

Example. In the right-angled triangle ABC, having AC 27° 54', and aC 11° 50'; to find the angle BAC.

9.6701807 sin. next leg 27° 54′ 10.6715374 cot. opp. leg 11 30 10.5017181 cotan. sac 23 30

Prop. III. Having the hypotemuse, and one of the angles; to find the other angle.

Add the cosine of the hypotenuse to the tangent of the angle given; the sum (abating radius) is the cotangent of the angle required.

Example. In the right-angled triangle ABC, having the hypotenuse AB 30°, and the angle ABC 69° 22′; to find the angle BAC.

9.9375306 cosin, hyp. AB 30° 00' 10'4241896 tang. ABC - 6') 22 10'3617202 cotan. BAC - 23 30

Prop. IV. Having the hypotemuse, and one of the angles; to find the leg next the given angle.

Add the tangent of the hypotenuse to the cosine of the angle given; the sum (abating radius) is the tangent of the leg required.

Example. In the right-angled triangle ABC, having the hypotenuse AB 30°, and the angle ABC 69° 22°; to find the leg BC.

9.7614393 tang. hyp. AB 30° 00° 9.5470188 cosin. ABC - 69 22 9 3084581 tang. BC - 11 30

Prop. V. Having the hypotenuse, and one of the angles; to find the leg opposed to the given angle,

Add the sine of the hypotenuse to the sine of the angle given; the sum (abating radius) is the sine of the leg required.

Example. In the right-angled triangle ABC, having the hypotenuse AB 30°, and the angle BAC 23° 30°; to find the leg BC.

9.6959700 ein. hyp. an 30° 00° 0.6006097 ein. sac - 23 30 0.2990697 sin. sc - 11 30 Prop. VI. Having one of the legs and the angle next it; to find the hypotenuse.

Add the cotangent of the given leg, to the cosine of the given angle; the sum (abating radius) is the cotangent of the hypotenuse required.

Example. In the right-angled triangle ABC, having the leg AC 27° 54', and the angle BAC 23° 30'; to find the hypotenuse AB.

10-2761563 cot. AC - 27° 54′ 9-9623977 cos. BAC - 23 30 10-2385540 cot. hyp. AB 30 00

Prop. VII. Having one of the legs, and the angle next it; to find the other leg.

Add the sine of the leg given to the tangent of the angle given; the sum (abating radius) is the tangent of the leg required.

Example. In the right-angled triangle ABC, having the leg AC 27° 54',
and the angle BAC 23° 30'; to find
the leg BC.

9.6701807 sin. AC 27° 54′ 9.6383019 tan. BAC 23 30 9.3084826 tan. BC 11 30

Prop. VIII. Having one of the legs, and the angle next to it; to find the other angle.

Add the cosine of the given leg to the sine of the given angle; the sum (abating radius) is the cosine of the angle required.

Example. In the right-angled triangle ABC, having the leg BC 11° 30', and the angle ABC 69° 22'; to find the angle BAC,

9-9911927 cos. BC 11° 30′ 9-9712084 sin. ABC 69 22 9-9624011 cos. BAC 23 30

Prop. IX. Having one of the legs, and the angle opposed unto it; to find the hypotenuse.

Add the radius to the sine of the given leg, and from the sum subtract

the sine of the given angle, or add its cosecant; the remainder or sum is the sine of the hypotenuse required.

Example. In the right-angled triangle ABC, having the leg BC 11° 30', and the angle BAC 23° 30'; to find the hypotenuse AB.

9.2996553 sin. BC 11° 30′ 0.3993003 cos. BAC 23 30 9.6989556 sin. AB 30 reqd.

Prop. X. Having one of the legs, and the angle opposed unto it; to find the other leg.

Add the tangent of the given leg, to the cotangent of the given angle; the sum (abating radius) is the sine of the leg required.

Example. In the right-angled triangle ABC, having the leg BC 11° 30', and the angle BAC 23° 30'; to find the leg AC.

9.3084626 tang. BC 11° 30′ 10.3616981 cot. BAC 23 30 9.6701607 sin. AC 27 54

Prop. XI. Having one of the legs, and the angle opposed unto it; to find the other angle.

Add the radius to the cosine of the given angle, and from the sum subtract the cosine of the given leg, or add the secant; the remainder or sum is the sine of the angle required.

Example. In the right-angled triangle ABC, having the leg BC 11° 30', and the angle BAC 23° 30'; to find the angle ABC.

9.9623977 cos. BAC 23° 30' 0.0088073 sec. BC 11 30 9.9712050 sin. ABC 69 22

Prop. XII. Having one of the legs, and the hypotenuse; to find the angle next the given leg.

Add the tangent of the given leg, to the cotangent of the hypotenuse, the sum (abating radius) is the cosine of the angle required. Example. In the right-angled triangle ABC, having the leg AC 27° 54', and the hypotenuse AB 80°; to find the angle BAC.

9.7238436 tan. Ac 27° 54' 10.2385606 cot. AD 30 00 9.9624042 cosi. BAC 23 30

Prop. XIII. Having one of the legs, and the hypotenuse; to find the angle opposed to the given leg.

Add the radius to the sine of the given leg, and from the sum subtract the sine of the hypotenuse, or add its cosecant; the remainder or sum will be the sine of the angle required.

Example. In the right-angled triangle ABC, having the leg BC 11° 30', and the hypotenuse AB 30°; to find the angle BAC.

9.2996553 sin. leg BC 11° 30' 0.3010300 cosec. hyp. AB 30 00 9.6006853 sine of BAC 23 30

Prop. XIV. Having one of the legs, and the hypotenuse; to find the other leg.

Add the radius to the cosine of the hypotenuse, and from the sum subtract the cosine of the given leg, or add its secant; the remainder or sum is the cosine of the leg required.

Example. In the right-angled triangle ABC, having the leg BC 11° 30', and the hypotenuse AB 30°; to find the leg AC.

9.9375306 cosin. AB 30° 00' 0.0088073 sec. BC 11 30 9.9463379 cosin. AC 27 54

Prop. XV. Having the angles; to find the hypotenuse.

Add the cotangent of one oblique angle to the cotangent of the other oblique angle; the sum (abating radius) is the cosine of the hypotenuse required.

Example. In the right-angled triangle ABC, having the angle BAC

23° 30', and the angle ABC 69° 22'; to find the hypotenuse AB.

0.3616981 cot. BAC 23° 30′ 9.5758104 cot. ABC 69 22 9.9375085 cos. hyp. AB 30 00

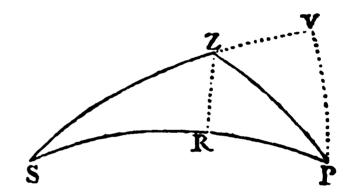
Prop. XVI. Having the angles; to find either of the legs.

Add the radius to the cosine of either oblique angle, and from the sum subtract the sine of the other oblique angle, or add its cosecant; the remainder or sum will be the cosine of the leg opposite to the angle whose cosine was taken.

Example. In the right-angled triangle ABC, having the angle BAC 23° 30', and the angle ABC 69° 22'; to find the leg BC.

9.9623977 cosin. BAC 23° 30′ 0.0287916 cosec. ABC 69 22 9.9911893 cosin. BC 11 30

### Of Oblique Triangles.



Prop. XVII. Having the three eides, to find any of the angles.

Add the three sides together, and take half the sum; also the difference between the half-sum and the side opposite to the angle sought. Then add the cosecants, or the complements of the sines, of the other sides, to the sines of the half-sum and of the said difference; half the sum of these four logarithms is the cosine of half the angle required.

Example. In the triangle szr, having the side zs 40°, rs 70°, and rz 38° 30′; to find the angle zrs.

PS =  $70^{\circ}$  0'cosec.0.0270142PZ = 38 30 cosec.0.2058505ZS =  $40^{\circ}$  0 sin.  $\frac{1}{2}$  sum9.9833805Sum 148 30 sin. dif.9.7503579I sum 74 15 cos.  $15^{\circ}$  47'19.98633015Diff. 34 15 zps 31 34 required.

Prop. XVIII. Having the three angles; to find any of the sides.

Let the angles be changed into sides, taking the supplement of one of them; then the operation will be the same as in the former proposition.

Prop. XIX. Having two angles, and a side opposed to one of them; to find the side opposed to the other angle.

Add the sine of the side given to the sine of the angle opposite to the side required, and from the sum subtract the sine of the angle opposite to the side given, or add its cosecant; the remainder or sum will be the sine of the side required.

Example. In the triangle szp, having the angle szp 130° 3′ 12″, spz 31° 34′ 26″, and the side zs 40°; to find the side ps.

 $\begin{array}{c} \textbf{9.8080675} & \sin.\ zs & 40^{\circ}\ 0' \ 0' \\ \textbf{9.8838294} \\ 850 \\ \textbf{0.2808858} \\ 1165 \\ \textbf{165} \\ \end{array} \begin{array}{c} \sin.\ szp \\ \textbf{31.35} \\ \vdots \\ \textbf{-34} \\ \textbf{9.9729842} \\ \end{array} \begin{array}{c} \sin.\ ps \ reqd.\ 70\ 0 \\ \textbf{0} \\ \hline \textbf{See pa. 171 following.} \end{array}$ 

Prop. XX. Having two angles, and a side opposed to one of them; to find the side between the angles given.

Let a perpendicular fall from the angle unknown, on its opposite side: then add the cosine of the given angle next the given side, to the tangent of the given side; the sum (abating radius) is the tangent of the first arc, comprehended between the given angle next the given side, and the segment of the side where the perpendicular falls.

And the second arc, comprehended between the same segment and the other angle, is to be found thus: add the sine of the arc found, to the tangent of the given angle next the given side, and from the sum subtract the tangent of the other angle given, or add its cotangent; the remainder or sum will be the sine of the second arc.

The sum or difference of these two arcs will be the side required.

Example. In the triangle szp, having the angle zps 31° 34′ 26″, zsp 30° 28′ 12″, and the side pz 38° 30′; to find the side sp.

31° 35′ 9·9303781 **{** 440 5 9.9006052 **38 3**0 9.8310273 tan. PR 1st arc 34 7 9.7488698 sin. PR 932 30 31 34 **9·788452**9 tan. zps 1227 26 0.2301404 cot. zsp 2313 - 48 9.7679103 sin. sr 2d arc 35 **30** add PR 1st, arc 34 30 sum is sp 70 See page 171 following.

But when the perpendicular falls\_out of the triangle, the difference of the two arcs will be the side required.

Prop. XXI. Having two angles, and a side opposite to one of them; to find the third angle.

Let a perpendicular fall from the angle unknown, on its opposite side; then add the cosine of the given side to the tangent of the adjacent angle; the sum (abating radius) is the cotangent of the first angle to be found, comprehended by the given side and the perpendicular.

And the second angle, comprehended by the perpendicular and the side unknown, is to be found thus: add the sine of the angle found, to the cosine of the given angle opposite to the

given side, and from the sum subtract the cos ne of the other angle given, or add its secant; the remainder or sum will be the sine of the second angle.

The sum or difference of these two angles will be the angle required.

Example. In the triangle szp, having the angle zrs 51° 54° 26", ase 50° 25' 12", and the side rz 38° 50'; to find the angle szp.

9.8935444		8° 30	11
9·7851529 12.7	tang, zps	1 34	
9.0831300	cot. 1st ∠ rzn 6	F 18	50

9.9547619		§ 0   18 ·				
507	sin. PZR	50				
9.9353 148		30 29 .				
594	COS. 25P	-48				
0.0092112		31 31 .				
3.0	SEC. ZPS	26				
9.9598417 s n. 2d & szn 65 44 21						
then add 1st Z PZRO 1 18 50						
the sum is szp 130 3 11						
See	See page 171 following.					

But when the perpendicular falls out of the triangle, the difference of the two angles will be the angle required.

Prop. XXII. Having two sides, and the angle between them; to find either of the other angles.

Let a perpendicular fall from the unknown angle, which is not required, on its opposite side; then add the cosine of the given angle to the tangent of the given side opposite to the angle required; the si in (abating radius) is the tangent of the first are, comprehended between the given angle und the segment of the given side where the perpendicular falls.

And the second are is the difference

And the second are is the difference of that side and the first are, being comprehended between the same segment and the angle required. Now add the sine of the first are, to the tangent of the given angle, and from the sum subtract the sine of the second are, or add its cosecant; the remainder or sum will be the tangent of the angle required.

Example. In the triangle szp. having the side Pz S8° 30', Ps 70°, and the angle zps 31° 31' 20'; to find the angle zsp.

44	18cv 015- 0016-	Pic r.i'				
9	9303781	Cocin	TRA	\$310	34'	
	440	{ Costil.	ZPB 4			26
9	9008052	tang	PZ	38	30	0
9	83102731	tan. PB, l	Stare	:34	7	30
	ta	aken fro	nı Ps	70	0	O
	leav	es sa, 2	d arc	35	54	30

9 7488698 }		<b>§</b> 34	7 .
032 \$	sin. PA	٤.	. 50
9:7884529 }	tang, zes	31	34 .
1227 {	comp. and	<u>}</u>	. 29
0.2320011 }	cosec, sa	35	53 .
873 5			-30
9:7090270 t	an, zes req.	30	28 12

See page 171 following.

To find both the unknown angles.

Add together the cosecant, or the complement of the sine, of half the sum of the given sides, the sine of half their difference, and the cotangent of half the angle given; the sum (abating radius) is the tangent of half the difference of the angles required.

Add also together the secant, or the complement of the cosine, of half the sum of the given sides, the cosine of half their difference, and the cotangent of half the angle given; the sum (abating radius) is the tangent of half the sum of the angles required.

Then add the half-difference of the angles required, to their half-sum, and you will have the greater angle; and subtract the half-difference from the half-sum, and you will have the lesser angle required, the same as its the former operation.

P\$ ==	70° 0'	Cosec. ½ sum 0.0906719 Sec. ½ sum 0.2534015
PZ 😑	<b>38 30</b>	Sin. 4 diff. 9.4336746 Cosin. 4 diff. 9.9833805
Sum	108 30	Cot. ½ zps 10.5486352 Cot. ½ zps 10.5486552
Diff.	31 30	T.49°47′30″ 10·0729817 T.80°15′42″ 10·7654:72
3 Sum	54 15	Half sum of angles required is 80° 15' 42"
J Diff.	15 45	Half the difference is 49 47 30
∠ ZPS	=31342	The greater angle szp is 130 3 12
₹∠ zps	= 15 47 1	The lesser angle zsp is, as before, 30 28 12

Prop. XXIII. Having two sides, and the angle between them; to find the third side.

Let a perpendicular fall from either of the angles unknown, on its opposite side: then add the cosine of the given angle, to the tangent of the side from whose end the perpendicular is let fall; the sum (abating radius) is the tangent of the first arc, comprehended between the given angle and the segment of the side where the perpendicular falls.

And the second arc is the difference of that side and the first arc, being comprehended between the same segment and the end of the side required.

Now add the cosine of the second arc, to the cosine of the side from whose end the perpendicular falls, and from the sum subtract the cosine of the first arc found, or add its secant; the remainder or sum will be the cosine of the side required.

Example. In the triangle szp, having the side PZ 38° 30', PS 70°, and the angle zps 31° 34' 26"; to find the side ZS

the side zs.		
$\frac{99303781}{440}$ cosin. 2PS $\frac{31}{100}$	35'	."
	-	-34
9.9006052 tang. Pz . 38	<b>30</b>	0
98310273 tan.pr,1st arc 34	7	<b>30</b>
taken from Ps 70	0	0
leaves sn, 2d arc 35	<b>52</b>	30
9.9085988 ) 35	53	
457 cosin. sr		· <b>3</b> 0
9.8935444 cosin. pz 38	<b>30</b>	0
00820236	7	•
428 sec. PR {	•	<b>30</b>
1.3842553 cosin. zs req. 40	0	0
See page 171 following	g.	

Prop. XXIV. Having two sides, and the angle opposite to one of them; to find the angle opposed to the other side

Add the sine of the angle given, to the sine of the side opposite to the angle required, and from the sum subtract the sine of the side opposite to the angle given, or add its cosecant; the remainder or sum will be the sine of the angle required.

Example. In the triangle szp, having the side ps 70°, zs 40°, and the angle szp 130° 3′ 12″; to find the angle zps.

 $\begin{array}{c} 9.8838294 \\ 850 \end{array} \} \begin{array}{c} \sin.\sup.\sup \end{array} \begin{cases} 49^{\circ} \ 56' \ .7' \\ . \ .48 \end{cases} \\ 9.8080675 \ \sin. \ zs \qquad 40 \quad 0 \quad 0 \\ 0.0270142 \ \text{cosec. ps} \quad .70 \quad 0 \quad 0 \\ \hline 9.7189961 \ \sin. \ zps \ req. \ 31 \quad 34 \quad 26 \\ \hline \text{See page 171 following.} \end{array}$ 

Prop. XXV. Having two sides, and the angle opposite to one of them; to find the third side.

angle between the sides given, on its opposite side: then add the cosine of the angle given, to the tangent of the given side next that angle; the sum (abating radius) is the tangent of the first arc, comprehended between the given angle and the segment of the side where the perpendicular falls.

Now the 2d arc, comprehended between the same segment, and the end of the side required, is to be found thus: add the cosine of the first arc, to the cosine of the given side opposide to the angle given, and from the sum subtract the cosine of the other given side, or add its secant; the remainder or sum will be the cosine of the second arc.

The sum or difference of these two arcs will be the side required.

Example. In the triangle sze, having the side Pz 38° 30′, sz 40°, and the angle spz 31° 34′ 26″; to find the side Ps.

But when the perpendicular falls out of the triangle, the difference of the two arcs will be the side required.

Prop. XXVI. Having two sides, and the angle opposed to one of them; to find the angle between them.

Let a perpendicular fall from the angle between the sides given, on its opposite side: then add the cosine of the given side next the given angle, to the tangent of that angle; the sum (abating radius) is the cotangent of the first angle to be found, comprehended by the given side next the angle given, and by the perpendicular.

Now the second angle, comprehended by the perpendicular and the other given side, is to be found thus: add the cosine of the first angle found, to the tangent of the given side next the angle given, and from the sum subtract the tangent of the other given side, or add its cotangent; the remainder or sum will be the cosine of the second angle to be found.

The sum or the difference of the first and second angles, will be the angle required.

Example. In the triangle szp, having the side Pz 38° 30', sz 40°, and the angle spz 31° 34' 26"; to find the angle szp.

Prop. XXVII. Having two angles, and the side between them; to find either of the other sides.

Let a perpendicular fall from the given angle, which is next the side required, upon its opposite side: then add the cosine of the given side to the tangent of the given angle opposite to the side required; the sum (abating radius) is the cotangent of the first angle to be found, comprehended by the given side and the perpendicular.

And the second angle is the difference between the first and the given angle next the required side, being comprehended by the perpendicular and that side.

Now add the cosine of the first angle found, to the tangent of the side given, and from the sum subtract the cosine of the second angle, or add its secant; the remainder or sum will be the tangent of the side required.

Example. In the triangle ser, having the angle sez 31° 34′ 26″, szp 130° 3′ 12″, and the side rz 38° 30′; to find the side sz.

9.8935444 cosin. pz -			
$\frac{9.7884529}{1227}$ tang. spz $\left\{\frac{1}{2}\right\}$	31	34	•
1227 \ tang. 372		•	<b>2</b> 6
9-6821200 cot. PZR, 1st Z,			
taken from szp	130	3	12
leaves szr, 2d ∠,			
9-6368859 cosin. PZR {	64	19	•
437 5 COMM. PZR {	•	•	-10
9.9006052 tang. pz -	38	<b>3</b> 0	0
0.3861750 } sec. szr {	65	44	•
1028 } 500. 321 }	. •	•	22
9.9238126 tan. sz req.	40	0	U
See page 171 follo	win	g.	

To find both the unknown sides.

Add together the cosecant, or the complement of the sine, of half the sum of the angles given, the sine of

half their difference, and the tangent of half the given side; the sum (abating radius) is the tangent of half the difference of the sides required.

Add also together the secant, or the complement of the cosine, of half the sum of the given angles, the cosine of half their difference, and the tangent of half the given side; the sum (abating radius) is the tangent of half the sum of the sides required.

Then add half the difference of the sides required, to their half-sum, and you will have the greater side; and subtract the half-difference from the half-sum, and you will have the lesser side required, the same as in the former operation.

8PŽ	80	34 37 28 48	26 38 46 49	Cosec. ½ sum 0 0056062   Sec. ½ sum 0.7968366 Sin. ½ diff. 9.8793527   Cosin. ½ diff. 9.8148437 Tang. ½ PZ 9 5430936   Tang. ½ PZ 9.5430936 Tang. of 15° 9.4280525   Tang. of 55° 10.1547733 Half sum of the sides required is 55° Half their difference is
	38	30	0	The greater side sp is 70 Lesser side sz is, as before 40

0.0095444

Prop. XXVIII. Having two angles and the side between them; to find the third angle.

Let a perpendicular fall from either of the angles given, upon its opposite side: then add the cosine of the side given to the tangent of the given angle, from which the perpendicular does not fall; the sum (abating radius) is the cotangent of the first angle, comprehended by the given side and the perpendicular.

And the second angle is the difference between the first and the given angle that the perpendicular fell from, being comprehended by the perpendicular and the side opposite to the other angle given.

Now add the sine of the second angle to the cosine of that given angle from which the perpendicular did not fall, and from the sum subtract the sine

of the first angle found, or add its cosecant; the remainder or sum will be the cosine of the angle required.

Example. In the triangle szp, having the angle szp 130° 3' 12", spz 31° 34' 26", and the side pz 38° 30'; to find the angle psz.

9'8935444 Cosin. PZ -	38	30	O
9.7884529 tang. sfz	<b>3</b> 1	34	•
1227 \ \tang. \ st \ 2	<b>)</b> .	•	<b>26</b>
9-6821200 cotan.pzr, 1st 2	-	18	<b>50</b>
taken from szp	130	3	12
leaves szr, 2d ∠	,65	44	22
0.0451773	64	19	•
101 cosec. PZR	•	.—	-10
9.9303781 cosin. spz	$\int 31$	<b>35</b>	•
4 <b>4</b> 0 )	•	•—	-34
$9.9598246$ $\sin sz$	65	44	•
209 S 3111. SZR		•	<b>22</b>
9.9354550 cosin. psz req.	30	28	0
See now 171 feller			

See page 171 following.

2

# FOR THE USE OF THE VERSED SINES MAY BE ALSO ADDED THE FOLLOWING PROPOSITIONS.

Prop. I. Having two sides of a spheric triangle, with the angle between them; to find the third side.

ADD together the log. versed sine of the contained angle, and the log. sines of the two sides; the sum (abating twice the radius) is the logarithm of a number to be found, which added to the natural versed sine of the difference of the two given sides, the sum will be the natural versed sine of the third side sought.

Or when the contained angle is above 90°, add the log. versed sine of its supplement, and the log. sines of the two sides together; the sum (abating twice the radius) is the logarithm of a number to be found, and subtracted from the natural versed sine of the sum of the two given sides, the remainder will be the natural versed sine of the third side sought.

Example 1. In the triangle s z P, having the side Pz 38° 30′, Ps 70°, and the angle z Ps 31° 34′ 26″; to find the side zs.

9.1703625 log.ver.sine z Ps 31° 34′ 26″

9.7941496 log. sine of Pz 38 30 0

9.9729858 log. sine of Ps 70 0 0

8.9374979 log. of the numb. 865960

Nat. vers. diff. sides 31° 30′ 1473598

Example 2. In the triangle szp, having the side Pz 38° 30', zs 40°,

- - 2339558

Nat. vers. zs 40° -

and the angle szr 130° 3′ 12″; to find the side rs.

The angle vzr is the supplement of szr.

9.5520590 log. vers. vzp 49° 56′ 48″ 9.7941496 log. sin. pz 38.30 0 9.8080675 log. sin. zs 40 0 0 9.1542761 log.of the number 1426514 Nat. vers. sum sides 78° 30′ 8006321 Nat. vers. ps 70° - - 6579807

This proposition may be very useful in finding the distances of places on the earth, whose longitudes and latitudes are known; the distances of stars, whose declinations and right ascensions, or longitudes and latitudes, are known; and consequently the altitudes, or common altitude of two stars, or two altitudes of the sun, and time between the observations, or difference of azimuth, being taken, the latitude of the place may readily be found.

Prop, II. Having two angles of a spheric triangle, and the side between them; to find the third angle.

Let the angles be changed into sides, and the side into an angle; then proceed as in the former proposition, and the result will be the supplement of the third angle. But if one of the given angles exceed 90°, take its supplement, and the result will be the third angle.

The following remarks and directions, for rendering the proportional part of a logarithm always additive, and for using c + t, c-t, &c, for s or c &c, in the foregoing propositions, 20, 21, 22, 23, 25, 26, 27, 28, were communicated by the Rev. Nevil Maskelyne, D. D. astronomer royal, and F. R. s. the fourth case having been invented by him many years since, and delivered to the computors of the Nautical Ephemeris, as precepts necessary in computing the moon's distance from the stars in some cases, and the rest he has now added on this occasion.

"The result of trigonometrical calculations will be sometimes inaccurate, owing to the logarithms not being carried to a greater number of places in the table, as will sufficiently appear from the logarithmic differences being small. This will happen where the answer
comes out in the cosine of a very small angle, or the sine of an angle
pear 90°. The greatness of the differences of the log. sines of small
arcs, or cosines of large ones, will sometimes affect the accuracy of the
result of the second part of the operation, unless the first arc be found
to a small part of a minute or second: To prevent such error, and
render the computation easier, putting t, t', s, c for the tangent, cotangent, sine, and cosine of the 1st arc or angle, then in the 2d part
of the work,

```
In Prop. 20, if the first arc
                            is very small,
                                           for
                                                s use c + t
                                           .for
                      angle is very small,
                                                s use c - t'
                           is very small,
                                           for s use c + t
        22
                      arc
                      arc is near 90°, arc is near 90°,
                                           for—c use t — s
                                           for c use s — t
        26 - - -  angle is near 90^{\circ},
                                           for
                                                c use s + t'
                      angle is near 90°,
                                           for
                                                c use s + t'
                      angle is very small,
                                                   use t' -- c
                                           for-s
```

This obviates the necessity of finding the first arc to a very minute exactness, which otherwise would be necessary in taking out the sine or cosine of the same arc in the second part of the work.

Where the foregoing precepts direct to subtract a sine or cosine, it will be readier in practice to add a cosecant or secant; and where they direct to subtract a tangent (which is done in prop. 26) it will be readier to add a cotangent. This method being used, if it be required to find the logarithmic sines, &c, to the exactness of a second, and the logarithm is increasing (as in the sines, tangents, and secants), write down the logarithm for the degree and minute without the seconds; and also write down the proportional part for the seconds; but, if the logarithm is decreasing (as in the cosines, cotangents, and cosecants) write down the logarithm for the next greater minute, and also write down the proportional part for the complement of the seconds to 60; and proceed in like manner

with every logarithmic sine, cosine, &c, used in the work; the sum of all the logarithms (abating one or two radii or tens in the index, according as 2 or 3 logarithmic sines, &c are used in the part of the work in question) will be the logarithmic sine, cosine, tangent, or cotangent required.

Ex. 1. To find the log. sine of  $34^{\circ}$  17' 24" Here log. sine of  $34^{\circ}$  17' - - 9'7507287 And as 60: 24 or as 10: 4::1853: - 741 2.7508028Ex. 2. To find the log. cos. of  $55^{\circ}$  42' 36" Log. cos. of  $55^{\circ}$  43' - - '9'7507287 60: 24 (60—36), or 10: 4::1853: - 741 2.7508028

Ex. 3. In the triangle PLS, given

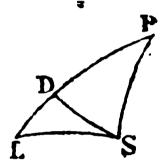
P = 20° 30′ 48″

to find LS by prop. 23;

PL = 89 10 0

to find LS by prop. 23;

so being perp. PL.



Here to avoid the trouble of finding the proportional part for the large logarithm difference of the cosine of Ps, that cosine is found by subtracting the tangent of it (already found) from the sine, which is easily found, because the differences are small: And, for the same reason, the sum of the tangent and cosecant of PD, are used instead of its secant.

N. B. The perpendicular should always be let fall from the end of the side, Ps or PL, which differs most from 90°, over or under."

#### OF THE TRAVERSE TABLE.

THIS traverse table, or table of difference of latitude and departure, in page 338 and 339, is so contrived, as to have the whole in one view, and is so plainly titled as to want little or no explanation.

The distances 1, 2, 3, &c, at the top and bottom, may be accounted 10, 20, 30, &c, and the 10 as 100,

if the minutes of latitude and departure answering to the course be increased in the same proportion; so that if the distance consists of two significant figures, the difference of latitude, and the departure, is each to be taken out at twice; and if of three figures, at thrice.

The chief design of this table, is for the ready and exact working of travenes; but it may also be applied to the solution of the several cases of plain sailing, and to some other uses.

Prop. I. Having the course and dinance, to find the difference of latitude and departure.

Seek the course on the left hand of both pages downwards, if less than four points, or 45 degrees; or if greater, on the right hand upwards; and even with it in the double column, signed at the top and bottom with the distance, is found both the difference of latitude and the departure.

Example 1. A ship sails saw # w 57 miles; the difference of latitude and the departure are required.

Find the course 2½ points on the kin-band side of each page, and even with it in the double columns signed 5, and 7, the two figures of the distance, the difference of latitude for 30 is 25.732, and for 7 is 6.004, the sum is 31.736 for the whole difference of latitude; and the departure for 30 is 15.423, and for 7 is 3.599, the sum is 19.022 for the whole departure.

Rrample 2. A ship sails se 49° 148 miles; the difference of latitude and the departure are required.

Find the course 49 degrees on the right-hand side of each page, and even with it in the double columns signed 10, 4, and 8, the difference of latitude at 100 miles is 65-606, at 40 is 96.242, and at 8 is 5-248; the sum is 97-096 for the whole difference of latitude. And the departure at 100 miles is 75-471, at 40 is 30-188, and

at 8 is 6.038; the sum is 111.697 for the whole departure. Thus,

Dist				Diff. Lat.		Depart.
100	•	-	•	65,606	-	75.471
40	•	-	-	26-242	-	30.188
~		-	-	5.248	-	6.038
148	m	iles		97-096	-	111.697

Prop. II. Having several courses and distances; to find the difference of latitude and the departure.

Make a table in the following manner, and put therein each course and distance; then find the difference of latitude and departure to each course by the preceding, and place them in the proper column; the difference of the sums of the northings and southings, is the whole difference of latitude; and the difference of the sums of the eastings and westings, is the whole departure.

Example. A ship from the latitude of 50° north, sails according to the courses and distances set in the traverse table; the differences of latitude, and the departure, are found at the bottom.

. 50 --- -- ---

199-693	Depart	Diff. la. 359/104	Diff. In.		
109-720		6-101			
848-348	103:720	363-205	101-9		
58-994		64-848		64	S 40" W
69.784			101.9	70	N 580 W
80-231		74 943		112	2480 M
36.384		101-697		109	MFM9S
	66'479	54-557		69	の日本区
	87:241	69-671		79	SSKIE
West.	Eug.	South.	North.	Miles	000
rture.	Departure.	Diff. of Lat.	DIF.	Dist.	

THE TRAVERSE TABLE.

This proposition may be applied in the surveying of large tracts of land, as a county, &c. and was made use of by Mr. Norwood in measuring the distance from York to London, as the road led him, observing the several bearings by his circumferentor, and finding by such a table his several differences of latitude, and departure, by which he obtained the distance between the parallels of London and York, pretty near the truth, so long ago as the year 1635; as may be seen in his Scaman's Practice.

Also in plotting the survey of a county thus taken, the circuit station-lines, though consisting of many hundreds, may be reduced to a few for the first closing, and the like for the intermediates of each line first plotted, by which every station may perhaps be more truly placed than by any other method: the distances in the table may be chains of 06, or 100 feet, as well as miles, or any other measure that the differences of latitude and departure would be had in.

Prop. 111. Having the difference of latitude, and the departure; to find the course and distance.

Seek the given difference of latitude and departure, taken together, in their columns, or the nearest numbers to them; and the course is even therewith at the side, and the distance at the top and bottom; but if the given difference of latitude and departure cannot be found nearly, take ½, ½, &c. part, or any equal multiple of them that can be found; then the course is even with them at the side, and such a part of the distance, as was taken of the difference of latitude and departure, at the top and bottom.

Example 1. Given the difference of latitude 59 miles s, and the departure 68 miles w; the course and distance are required.

In the double column over 9, even with 49° at the right-hand side, is

found together the given difference of latitude and departure; therefore the course is 49° sw, and the distance 90 miles.

Example 2. Given the difference of latitude 30 miles N, and the departure 18 miles E; the course and distance are required.

Here the given difference of latitude and departure, or any numbers near them, are not to be found together in the table; therefore taking or the double of each, the course is found to be 31° NE, and the distance 35 miles.

Note. A table computed to every mile in the distance up to 100 mites would more readily solve this example,

Prop. IV. Having the departure and middle latitude; to find the difference of longitude, according to the method used by W. Jones, Esq. P. R. S.

Seek the given departure, or the next less number in the columns signed lattern with the middle given latitude found among the courses, and at the top and bottom (signed dist.) is the difference of longitude sought; which, if not found directly at once, may be taken out at twice or thrice.

Example 1. Being yesterday noon in the latitude of 37° 17′ N, and this day noon in 38° 43′ N, and by the table the departure is found 70°9.21 x; the difference of longitude is required.

In the column signed lat, under 9, even with 38°, the middle latitude is found 7.0921; therefore 90 miles in the difference of longitude sought.

Example 2. Being yesterday nonin latitude 46° 25' N, and this day noon in 47° 35' N, so that the midd. latitude is 47° N, and the departuis found 112:53 miles w; requirthe difference of longitude.

In the column signed lat, over at the bottom, even with 47 at right-hand side, is 6.8200; therefore subducting 68.200 from 112.53, the remainder is 44.33; then over 6 is 4.0920, and 40.92 subducted from 44.33 leaves 3.41, which is found over 5; therefore the difference of longitude is 165 miles west.

If the middle latitude be not an even degree, but have odd minutes; find the difference of longitude, for the even degrees next less and greater, and add a proportional part of the difference between the two results to the lesser; the sum will be the differ-

ence of longitude sought.

Suppose the middle latitude in the listexample had been 47, 20' N, then, after finding the difference of longitude as before for 47°, find it also for 48°, which is 168 miles; then I of the difference being added to the lister, gives the difference of longitude 166 miles west.

Note. Though this method is not in all cases near the truth, yet when the miles are geographical, it is sufficiently near for daily practice in any royage, as well as easy, and very expeditious.

Prop. V. Having the latitudes and the longitudes of two places, to find the bearing and distance.

Seek the complement of the middle latitude among the degrees, and the difference of longitude in minutes among the distances, the departure answering is found in its proper column; then with the difference of latitude and departure, find their bearing or course and distance by the third.

Erample. Let the Lizard be given in the latitude of 49, 50' N, and 5° 21' w longitude, and Cape Ortegal in the latitude of 44° 10' N, and 70° 43' w longitude; to find the bearing and distance.

The difference of longitude is 142'; and in the columns signed dep. under 19, 4, and 2, even with 43° the comiddle latitude, are found 6.8200, 2.7280, and 1.3640; then increasing the two former as before shown, their sum is 96.844 miles w, for the departure; and the bearing, or course, answering to 340 miles difference of latitude, with 96.844 departure, is found about 16° sw: and the distance about 354 miles.

#### OF MERCATOR'S SAILING.

THE uses of the table of meridional parts are fully supplied by the table of logarithmic tangents, as is demonstrated in No 219 of the Philosophical Transactions. It is there proved, 1st, That the meridional line, or scale of Mercator's Chart, is a scale of the log. tangents of the half-complements of the latitude. 2dly, That such log. tangents of Mr. Briggs's form, are a scale of the differences of longitude, on the rumb which makes an angle of 51° 38′ 9″ with the meridian. And 3dly, That the differences of longitude on different rumbs, are to one another as the tangents of the angles of those rumbs with the meridian.

Hence it follows, that the difference of the log. tangents of the half emplements of the latitudes, is to the difference of longitude a ship akes in sailing on any rumb from the one latitude to the other, as tangent of 51° 38′ 9″ (whose logarithm is 10·1015104) to the tangent of the angle of the rumb or course with the meridian; so that:

I If two latitudes, and the difference of longitude, be given, the urse and distance are readily determined by this rule.

Take, by help of the tables, the difference of the log. tangents of the half-complements of the latitudes, esteeming the last three figures to be a decimal fraction; and add the complement of its logarithm to the logarithm of the difference of longitude reduced to minutes, and the constant log. 10 1015104; the sum (abating radius) shall be the log, tangent of the course. And to the log, secant of the course, add the logarithm of the difference of latitude reduced to minutes, the sum (abating radius) shall be the logarithm of the distance in minutes.

Example. Given the Lizard to be in latitude 49° 55' N, Barbadoes in 13° 10' N, and their difference of longitude 53° 00', or 3180' w;

to find the course and distance.

Co. lat. {Barbadoes 38° 25' l. tan. 9.8993082 l. 3180'= 3.5024271 Lizard 20 2½ l. tan. 9.5620477 const. log-10-1015104 diff. 3372.605 its co. log. 6:4720346

Log. tang. of the course 490 59' 10" sw - -10.0759721 Log. sec. of the course 49 59 10 Log. of 2205' diff. of the latitudes -3:343 1086 Log. of 3429 378 distance of Barbadoes from the Lizard

II. If two latitudes and the course be given, the difference of longitude is obtained with the same ease: for as the tangent of 51° 38' y is to the tangent of the course, so is the difference of the log. tangents of the half-complements of the latitudes, to the difference of longitude sought. Therefore, to the complement of the constant log. 10-1015104, add the log. of the difference of the log. tangents of the half-complements of the latitudes, and the log, tangent of the course, the sum (abating radius) will be the log, of the difference of longitude in minutes.

Example. Given the latitudes 49° 55' and 13° 10', and course 49° 59' 10"; to find the difference of longitude.

Lat. 13° 10', its Ico,lat. 38° 25' l. tan. 9:8998082

Lat. 49 55 -20 211.tan.9:5620477 co.const.log.9:8984896

diff. 3372.605 - its log. 3.5279654 Log. tang. of the course 49° 59′ 10″ - - - - 10.0759721 Log. of  $3180' = 53^{\circ}$  for diff. of longitude - -3.5024271

By this rule, having two good observations of the latitude, and the course duly steered, the reckoning of a ship's way is best ascertained, especially if you sail near the meridian.

III. If the latitude departed from, the course steered, and distance sailed, be given; to find the ship's latitude, and difference of longitude.

First, the latitude is obtained from the consideration that the distance is to the difference of latitude, as radius to the cosine of the course, which is common to plain sailing. Therefore to the log, of the distance add the log, cosine of the course, the sum (abating radius) is the log. of the difference of latitudes; which difference added to the lesser latitude, or subtracted from the greater, the sum or remainder is the present latitude: then having the two latitudes and the course, the difference of longitude is found by the second.

Example. Having sailed from the Lizard, in lat. 49. 55' N, on a course 49° 59' 10" south-westerly 3429.378 miles: required what longitude and latitude the ship is found in.

Now subtracting 36° 45' from 49° 55', the remainder 13° 10' N, is the latitude the ship is found in.

By which latitude, now known, the difference of log. tangents will be found 3372.605, and the further process in nothing differing from the second rule, by which the difference of longitude will be found 53° 00'.

Thus the dead reckoning by the log line, and daily account of a ship's way, are duly kept, and the trouble very little more than by plain miling.

These are all the cases that occur in practice; the rest, which are mostly speculative, are either easily reducible to these, or else not to be performed by logarithms, and therefore come not at present under our cognizance.

But it is to be noted, that both the complements of the latitudes are to be estimated from the same pole of the world; which may be from either; and therefore if one latitude be N, and the other s, to have their complements, you must add 90° to one of them, and subtract the other from 90, and then the operation will be the same as in the preceding cases.

Example. Given St. Jago, one of the Cape-de-Verd islands, in the latitude of 14° 56' N; and the island St. Helena, in latitude 15° 45' s, and their difference of longitude 30° 12' E; to find the course and distance.

Co. lat. {St. Jago 52° 28'. l. tan. 10·1144965 l. 1812' 3·2581582 St. Helena 37 7\frac{1}{2}. l. tan. 9·8790845 const. log. 10·1015104

 Log. tang. of the course 44° 11′ 53″ se
 9.9878400

 Log. sec. of the course 44 11 53
 10.1445200

 Log. of 1841′ diff. of the latitudes
 3.2650538

 Log. of 2567.875 distance of St. Helena from St. Jago
 3.4095738

Or if it be thought easier, when one latitude is N, and the other s, you may add 90° to each of them, the sum of the log. tangents of their halves (abating twice the radius) will be the same as the difference of the log. tangents of the former. For an example, take the same latitudes as in the preceding.

Then 90° +  $\begin{cases} 14^{\circ} \ 56' = 104^{\circ} \ 56' \\ 15 \ 45 = 105 \ 45 \end{cases}$  its half  $\begin{cases} 52^{\circ} \ 28' \ \text{l. tan.} \ 10.1144965 \\ 52 \ 52\frac{7}{2} \ \text{l. tan.} \ 10.1209155 \end{cases}$ 

Also, when both latitudes are of the same name, that is both N or both s, you may add 90° to each of them, the difference of the log. tangents of half these sums will be the same as of the log. tangents of half the complements of those latitudes.

K70

#### TABLE FOR THE LENGTHS OF CIRCULAR ARCS.

THIS is table 12, and constitutes page 340. It contains the lengths of every single degree up to 180, and of every minute, second, and third, each up to 60. The form of it is obvious; the length of each degree, minute, second or third, immediately following it on the same line in the next column. And the two following examples will show the use of the table.

## Ex. 1. To find the length of an arc of 57° 17' 44" 48".

Take out from their respective columns the lengths answering to each of these numbers singly, and add them all together, thus:

0.0040977

e wh	ole	len	igth,	and is equal to th			
the sum or 1.0000000							
<b>4</b> 8″	•	• `	•	39			
44"	•	•	•	2133			
17'	•	•	•	<b>49451</b> ,			
31	•	•	•	0 9940311			

the sum or 1.0000000 is the whole length, and is equal to the radius; that is, the length of an arc of 57° 17′ 44″ 48″ is equal to the radius of the circle. Ex. 2. To find the degrees, minutes, &c in the arc 1, which is equal to the radius.

Subtract from it the next less tabular arc, and from the remainder the next less again, and so on till nothing remain; and opposite to the several numbers subtracted, will be the degree, minutes, &c; thus:

Give	n l	eng	ŗth		1.0000000
57°	•	•	•	•	0.9948377
17'					51623
17	•	•	•	•	49451
a a <b>M</b>					2172
44"	•	•	•	•	2133
<b>48'''</b>					39

So that the arc which is equal the radius contains 57° 17' 44" 48

#### TABLE FOR COMPARING HYP. AND COMMON LOGS.

THIS is table 13, and is the upper part of page 341. It contains the hyperbolic logs. answering to the first 100 common logs. and is very useful for speedily changing the one into the other.

Ex. 1. To find the hyp. log. answering to the common log. 0-9542425.

Beginning at the left hand, and dividing the given number into periods of two figures each, including the index, take out the hyp. log. to each period, omitting two figures at the 2d period, four at the third, and six at the 4th; then add them all tegether, thus:

com. log. hyp. log.
09 . 2.0723266
54 . 1243396
24 . 5526
25 . 58

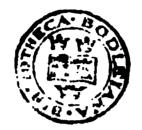
09542425 2.1972246 ans.

Ex. 2. To find the common loganswering to the hyp. log. 2.1972246.

Subtract continually each next less tabular hyp. log. from the given number, and from the remainders; and the several common logarithms answering to these tabular hyp. logs, joined together, will be the com. log. required, thus:

09	ven	2.18	p. log. 972246 7 <b>2</b> 3226
		12	248980
54 .		19	243396
		,	5584
24		•	552 <b>6</b>
			58
25	•	•	58
0.9542425	ansv	ver.	

The remaining pages contain the small table of the names and degrees, &c, in the points of the compass; which needs no illustration; and a copious list of such errors, with their corrections, as have been discovered in the principal books of logarithms; among which are many that have been detected by myself, both in the Avignon edition of Gardiner, and in Gardiner's own quarto edition, as well as in the French tables by Callet, and by Didot; which renders this list more complete than any former one; and it will be found very useful in correcting those books of tables which are already in the possession of the public. As to all the editions of Sherwin's and Gardiner's tables in octavo, the errors in them are far too numerous to be printed in this or any other work, as they amount to many thousands, even in the edition of 1742, published by Gardiner, in which the last figures of the logarithms are usually not correct to the nearest unit, except in a very few pages at the beginning, and at the end of the table, so that it cannot be depended on for nice calculations.



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### TABLE I.

CONTAINING

THE LOGARITHMS OF ALL NUMBERS, FROM 1 TO 100,000.

(2) Numb. 1 to 100, and LOGARITHMS N. 100 L. 00											
S	Numb.	I to	100, and		GARITI	IMS		. 10			
_	eir Log. v		indices.	<u>N</u> .	Log.	N.	Log.	N.	Log.		
	0.00000000		1.7075702		0000000	150	1760913	200	3010300		
5	0.3010300 0.4771213	52 53	1.7160:033 1.7242759		0045214	151	1789769 1818436	201 202	3031961		
4	0.6020600	54	1.7323938		0128372	153	1846914	202			
5	0.6989700	55	1.7403827		0170333	154	1875207	204			
6	0-7781513	56	1.7481830		0211893	155	1903317		3117539		
7	0-8450980	57	1-7558749		0253059	156	1931246		3138672		
8	0-9050900	58	1.7634280	107	0293838	157	1958997	200	3159703		
9	0.9542425	59	1.7708520		0334238	158	1986571		3180633		
10	1.00000000	60	1.7781513		0374265	159	2013971		3201463		
11 12	1.0413927	61 62	1.7853298		0413927	160	2041200		3222193		
13	1-0791812 1-1139434	63	1.7923917		0453230 0492180	161 162	2068259 2095150		\$242825 \$263359		
14	1.1461280	64	1.8061800		0530784	163	2121876		3263796		
15	1-1760913	65	1.8129134		0569049	164	2148438	214	3304138		
16	1-2041200	66	1-8195439	115	0505978	165	2174839	215	3324385		
17	1.2304489	111	1.8260748		Q644580	166	2201081		3344538		
18	1.2552725	68	1-8325089	9	Q581850	167	2227165		3364597		
19	1.2787536	09	1.8338491		0718820	163	2253093		3384565		
20	1-\$010300	70	1.8450980		0755470	169	2278867		3404441		
21	1:3222193 1:3424227	71 72	1.8512583		0791812	170.	2304489		3421227		
23	J-3617278	72	1-8573325 1-86 <b>3</b> 3229		0827851 0883598	171	2329961 2355284	221	344392 <b>3</b> 3463530		
24	1.3802112	74	1.8692317		0899051	173	2380461	7	3493040		
25	1.3979400	75	1.8750613		0934217	174	21.5492		3502480		
26	1.4149733	76	1-8808138	125	0969100	175	2430380	225	3521825		
27	1-4313638	77	1.8864907	126	1003705	176	2455127	226	3541084		
28		78	1.8920946	127	1038037	177	2479733		3560259		
29		79 80	1-8976271	128	1072100	179	2504200		3579348		
30			1-9030900	129	1105897	179	2528530	'	359 <b>8355</b>		
31 32	1.4913617 1.5051500		1.9084850 1.9158139	150	1139434		2552725	230	2-11-0		
33	1.51851300	83	1.9138139	132	1205739	181	2576786 2600714	231 232	3636120 3654880		
34	1.5314789	84	1.9212793	133	1258516	183	2624511	233	3673559		
35	115 140030	85	1.9294189	134	1271048	161	2618178		3692159		
					1						

85 1 9294189 134 1271048 181 2618178 234 3692159 86 1 934985 135 1303338 185 2671717 235 3710679 87 1 9395193 136 1335389 186 2695129 236 3729120 86 1 9444827 137 1307206 187 2718416 237 3747483 1991 9542425 139 1430148 189 2764618 239 3783979 11 9590414 140 1461230 190 2787536 240 3802112 92 1 9637878 141 1492191 191 2810334 241 3820170 93 1 9684829 142 1522883 192 2833012 242 3838154 19731279 143 1553360 193 2855573 243 3856003 95 1 9777236 144 1583625 194 2878017 244 3873898 96 1 9822712 145 1613680 105 2900346 245 3831661 97 1 9867717 146 1645529 196 2922561 246 3903351 199 19867717 146 1645529 196 2922561 246 3903351 199 19912261 145 1673173 197 2944602 247 3926970 19 1 9456352 148 1702617 198 2966052 245 3944517 100 2 00000000 140 1701803 199 2988531 249 3901993 N. Log. N. Log. N. Log. N. Log.

35 1.5 140030 36 1:5563025 37 1.5682017 1.5797×36

39 1 5910646 40 1.6020600 41 1.6127839 42 1.6232493 43 1.6334685 44 | 1 6434527 45 1-0532125 40 1.6627578 47 1-6720979 48 1 08.2112 49 1:6901961 50 1-0989700 Log.

1	0500 L	. 0 <b>2</b> i		(7)							
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33 33	0220157 4284		0985 5109	1396 5521	1808 5933	2221 6345	2634 6758	3046 7170	3459 7582	3871 7994	2 83 83 83 3 125 125 124
E N		8818	9230	9612	0054	0466	0878	1289	1701	2113	4 166 166 166
O IS	0932525	2936	3948	3759	4171	4582	4994	5405	5817	6228	5 208 208 207 6 250 249 248
13		7050	7462	7873	8284	8695	9106		9928	<b>0</b> 539	7 291 291 290
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	4857	5267	5678	6088	6498	6909	7319	7729	8139	8549	[413]412]411
5			9780	0190		1010		1829	2239	2649	1 41 41 41
10	0255059	3460	3876	4238	4697	5107	5516	5926	6335 0427	6744	2 83 62 89
	7154	7563 1654	7972 2063	8382 2472	8791 2881	9200 5289	9609 3698	4107	4515	0836 4924	3 124 124 123 4 165 165 164
13	5333	5741	6150	6558	6967	7375	7783	8192	8000	9008	5 207 206 206
34		9824	0233	0641	1049	1457	1865	2273	2680	3088	6 2 18 247 247 7 269 288 288
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14	0281644	2051	2458	2865	3272	3679	4086	4492	4899	5306	1 41 41 41
-	5713	6119	6526	6932		7745	8152	8558	8904	9371	1 41 41 41 2 82 82 92
1	9777		0590	0996		1808	2214	2620	3026	3432	3 123 123 122
	0295836	8300	4649	5055		5867	6272 6327	6678 0732	7084	7489 1543	4[164]164]163 5[205]203[204]
	7895	2355	8706 2758	3169	9516 3568	9922 3973	4378	1783	5188	5592	6 246 248 245
	3987	6402		7211	7616	8020	8425	8830	9234	9638	7 287 286 286 8 328 327 326
	0510043	0447	0951	1256	1660	2064	2468	2872	3277	3681	9 360 368 367
10	4085	4489	4893	5296	5700	6104	6508	6912	7315	7719	1407-406 405
17	6123	8526	8930	9333	9737	δ140	0544	0947	1350	1754	1 41 41 41
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	0330214	0617	1019	1422	1824	2226	2629	3031	3433	3835	5 204 203 303 6 244 244 248
41	4238 8257	8659	5042 9060	5444 9462	5840 9864	0248 0265	0650	7052 1068	7453	7855 1871	7 285 284 284
뷕	3342273	2674	3075	3477	3878	4279	4680	5081	5482	5881	8 326 325 324
	6285	6686	7087	7487	7888	8289	8690	9091	9491	9892	91366 365368
100	350293	0693	1094	1495	1895	2296	2696	3096	3497	3897	1 40 40 40
15	4297	4698	5098	5498	5898	6298	6698	7098	7498	7898	2 81 811 80
	8298	8698	9098	9498		შ297	0697	1097	1496	1896	3 121 121 121 4 162 161 161
F 6	362295	2695	3094	3494		4293	¥692.	5091	5491	5690	5 202 202 201
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	370279			1							7 283 282 281 8 323 322 3.22
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103	6202	6599			7791			8982	9579		1 40 40 40
96 0	\$90179	0570	0967	1364	1761	2158	2554	2951	5549	3745	2 80 80 80 3 120 120 120
83	4141	4538	4934	5331		6124		6917	7813	7709	Fail reol reol root
10	8106	1	8898		9690	4		0878		1670	5 201 200 200 6 241 240 239
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50.)	6989700	550	7403627	600	7781513	650	8129134	700	8450980
501	6998377	551	7411516	601	7788745	651	8135810	701	8457180
502	7007037	552	7419391	602		652	8142476	702	8463371
503	7015680	553		603		653	8149132	703	8469553
504	7024305	554	7435098	604	7810369	654	8155777	704	8475727
505	7032914	1 1	•			655	8162413	705	8481891
506	7041505	556		606		656	8169038	706	
507	7050080	557		607	7831887	657	8175654	707	8494194
508 <b>5</b> 09	7058637 7067178	558 559	7466342 7474118	608		658 659	8182259 8188854	708 709	8500333 8506 <b>46</b> 2
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511	7084209 70927 <b>0</b> 0	561 562		612	7860412 7867514	661 662	820201 <i>5</i> 8208580	711	8518696 8524800
	7101174	563	•	638		663	8215135	ı	8530895
514	1	564		614		664	8221681	714	8536982
515	1			615		665	8228216	715	8543060
	7126497	566		616		666	8234742		8549130
	7134905	567		617		667		717	8555192
	7143298		7543483		1	668	8247765		
	7151674	1		1.6				1	_
<b>52</b> ()	ł _				7923917	670	8260748	720	8573325
<b>52</b> 1	7168377	571		621		671	8267225	721	8579353
<b>52</b> 2			7573960	622		672	8273693	722	8585372
	7185017	573	7581546	623	7944880	673	8280151	723	8591383
524	7193313	574	7589119	624	7951846	674	8286599	724	8597386
<b>525</b>	7201593	575	7596678	625	7958800	675	8293038	725	8603380
<b>52</b> 6	7209857	576	7604225	626	· I	676	8299467	726	8609366
<i>52</i> 7	7218106	577	7611758	627	7972675	677	8305887	727	8615344
	7226339	12	7619278	628	7979596	678	8312297	728	8621314
<b>529</b>	7234557	579	7626786	629	7986506	679	8318698	729	8627275
<b>53</b> 0	7242759		7634280	630	7993405	680	8325089	730	8633229
	7250945		76+1761	631	8000294	681	8331471	731	8639174
_	7259116	_	7649230	632	8007171	682	8337844		8645111
	7267272	583		633	8014037	683	8344207	1	8651040
-	7275413	584	1	634	8020893	684	8350561	734	8656961
535	1	_	7671559	635	8027737	685	8356906		8662873
536 5 <b>3</b> 7		H .	7678976 7686381	636 637		686	8363241	736	9668778
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<i>53</i> 9	1	589	1 _	639	8055000	689	8382192		8686444
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540	7323938	N			8061800 8068580		8394780		8692 <b>3</b> 17 8698182
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_	7355989	11				694	8413595		
545	7363965	595	7745170	645	8095597	695	8419848	ŀ	
	7371926	H		i <b>t</b>		696	•		l
547	1	47	•	647	3109043	697	8432328	1	8733206
548	7387806	11	b	648		_	1		8739016
				1440	1010044	LEAN	10144770		
5 +9	7395723	599	7774268	649	8122447	699	8444772	749	8744818

	750 L.8	7	0		UMBERS		(5)		
N.	Log.	N.	Log.	N.	Log.	N.	Log.	N.	Log.
750	8750013	SOO	9030,00	850	9294189	900	7542425	950	9777230
751	8756399	801	9036325	851	9299296	901	9547218	951	978180
752	8702178	802	1011741	852	9304396	902	9552065	952	978636
753	8767950	803	9047155	853	9309490	903	9556878	953	979092
754	8773713	-04	9052560	354	9314579	304	9561684	954	979548
755	8779470	805		855	9319661	905	9566486	955	980003
756	8785218	800	9063350			11	9571282		9804579
757	8790954	807	9068735	857	0329808	907	9570073		9809119
758	8796692	808		858	9334373	LP	9530858		981365
759	8802418	809	9079485	859	9339932	900	9585639	1	981818
760	8808136			860	9344985	910	9590414	960	9822719
761	8813847	811	9090209	861	9350032	i	9595184	961	9827234
762	<b>38</b> 19550	812	90 )5.560	862	9355073	Ц		962	983175
763	8825245	813	9100905	803	1			963	983626:
764	8830934	814	9106214	804	9305137	914	9609462	964	9840770
765	8836614	815	9111576	865	9370161	915	9614211	965	984527
766	8842258	516	9116902	866	9375179	916		906	984977
767	8847954	817	9122221	867	9380191	1	9623693	967	985 <b>426</b> .
768	8853612	318			9345197				
769		819	9132839	569	9390198	919	9633155	860	9863238
770	10001	320	9134139	870	9395193	920	9637878	970	9867717
771	8870544	821	9143432	-	9400132	. 1		971	9872199
772		822		11	9405165				987666
773	8881795	823			9410142				
774	8887410	32+	9159272	874	9115114	924	9650720	974	9885590
775		825			9420081				
778		326	_	1	9425041	1			
777	8904210	827	1	877		ı I	9670797		9898940
778	8909796	828		878	· ·		9675480		9903389
779	8915375	829		879			9680157		9907827
780		i	9190781	li	9414827	1			
781	8926510	831		,		T I	9089497		9916690
782		832		17	9454686	1		, ·	
783 784	8937618 8943161	833  8 <b>34</b>	1	!!	1		9698816		
		1		884		1	9703469	5	
785 786	8948697     8954225	835				1	9708116		
787	8959747	830 837		r:	9474337				
788	8965262	834		887	9484130		9717396		9943179
789	8970770	839		<b>'</b>	9489018				99 <b>4</b> 7 <i>5</i> 69 99 <b>5</b> 1963
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792			9253121	E /	9503619				9960731 9965111
793		843		) ·	9508515	1	2		
794				1 i	1	(1)	9749720		997380
795		1	}	li	9518230	'l		1	997823
796		846		Y!	9523080	4		996	997 <b>823</b> 998 <b>25</b> 93
797	9014543	817	9273704	897				997	998695
798		848		II	9532763			008	999130
799	_ ·	849	9289077	899	1		9772662		999565.
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	N.	0	1	δ	3	4	5	6	7	8	9	Dif. & Pro. Pts.
	1000	0000000	0434	0869	1303	1737	2171	2605	3039	3475	3907	[434 433 432
	01	4341	4775	5208	5642	6076	6510	6943	7377	7810	8244	1 43 48
	02	8677	9111	9544	9977	0411	0844	1277	1710	2143	2576	2 87 87 86
1	03.	0013009	3112	3875	1308	4741	5174	5607		6472		8 130 130 130
1	04	7337	7770	8202	8635	9067	9499	9932	0364	0796	1228	4 174 173 173 5 217 217 216
	05	0021661	2003	2525	2957	3389	3821	4253	4685	5116	5548	6 260 260 250
1	1000	5980	6411	6843	7275	7706	8138	8569	9001	9432	9863	7 304 303 302
-1	07	0030295	0726	1157	1588	2019		2882	3313	3744	4174	6 347 346 346 9 491 390 300
J	08	4605	5036	1 .	5898	6328	6759	7190		8051	8481	143114301429
1	09	8912	9342	9772	<b>0</b> 203	0633	1063	1493	1924	2354	2784	1 43 43 43
-1	1010	0045214	3644	1074	1504	4933	5363	5798	6223	6652	7082	2 86 86 86
1	21	7512	7941	8371	8800	9229	10	0088		0947	1376	3 129 129 129
4	12	0051805	2234	2663	3092	3521	3950		4808	5237	5666	4 172 172 172 5 216 215 215
- ;	19	6034	6523	1 '	7380	7809	8238			9523	9951	6 259 258 257
ı	14	0050380	0808	1236	1061	2092	2521	2949	3377	3805	4233	7 302 301 300
	15	4660	5088	5516	5944	6372	6799	7227	7655	8082	8510	8 345 344 348
-1	10	8937	9365	9792	0319	0647	L074	1501	1928	2355	2782	9 388  187 386
4	17	0073210	3637	4061	1490	4917	5344	5771	6198	6624	7051	428 427 426
	18	7476	7904	8331	8757	0184	9610	<b>Ö</b> 037	0463	0889	1316	1 43 43 48
	19	0081742	2168	2594	3020	3446	3872	4298	4724	5150	5576	3 126 128 128
	1020	6002	6427	6853	7279	7704	8130	8556	1898	9407	9832	4171 171 170
	21	0090257	0683	1108	1533	1959	2384	2809	3234	3659.	4084	5214214213
	22	4509	4934	5359	5781	6208	6633	7058	7493	7907	8332	6 257 256 256 7 300 299 298
	23	8750	9181	9605	<u>0030</u>	0154	0878	1303	1727	/151	2575	8342342341
H	24	0103000	3424	3848	4272	4696	5120	5544	5967	6391	6815	9385384383
	25	7239	7662	8086	8510	8933	9357	9780	₩204	0627	1050	425 424 428
	26	0111474	1897	2320	2743	3166	3590	4019	4436	4859	5282	1 43 42 42
	27	5704	6127	6550	6973	7396	7818	8241	R664	9086	9509	2 85 85 85
	28	9931	0354	0776	1198	1621	2043	2465	2887	3310	3732	3 128 127 127 4 170 170 168
	29	0124154	4576	4998	5420	5812	6264	6685	7107	7529	7951	5 21 3 212 212
	1030	8372	8794	9215	9637	<b>6</b> 059	0480	0901	1323	1744	2165	6 255 254 254
	31	0132587	3008	3429	3850	4271	4692	5113	5534	5955	6376	7 298 297 2 <b>96</b> 8 340 339 <b>338</b>
-1	32	6797	7218	7639	8059	8480	8901	9321	97 +2	<u>0</u> 162	0583	9 383 382 381
	33	0141003	1424	1844	2264	2685	3105	3525	3945	4365	4785	422 421 1420
4	34	<b>52</b> 05	5625	6045	6465	6885	7305	7725	8144	8564	6984	4/ 42 42
	35	9403	9823	0243	0662	1082	1501	1920	23 10	2759	3178	2 84 84 84
J	36	0153598	4017	4436	4855	5274	5693	6112	6531	6950	7369	3 127 126 126
-1	37	7788	8206	8625	9044	9462	9881	<b>0</b> 300	0718	1137	1555	14 169 168 168
4	38	0161974	2392	2610	3229	3647	4065	1483	4901	5319	5737	6 253 253 252
	39	6155	6573	6991	7409	7827	8245	8663	5080	9498	9916	7 295 295 294
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N. 1	N. 12500 L. 096 OF NUMBERS. (11)													
N.	0	1	2	3	4	5	6	7	8	19	Differ.			
1250	0969100	9448	9795	0142	0490	0837	1184	1531	1879	2226	344 343			
51	0972573	2920			3962		4656		5349	5696	//       -			
52	6043	6390	6737		7431	<b>a</b> 1	8124		8817	9164				
53	9511	9857	<b>0</b> 204	0550	0897	1243	1590	1936	2283	2629				
54	<b>0982</b> 975	3322	<b>36</b> 68	4014	4360	4707	5053	5399	5745	<b>6091</b>	4 138 137			
55	6437	6783	7129	7475	7821	8167	8513	8859	9205	9551	5 172 172 6 206 206			
56	9896	0242		0934		1625		2316	2662	3007	7 241 240			
57	0993353	3698	1044	4389		5080		5771	0116	6461	8 275 274			
58	6806	7152	7497	7842	8187	8532	8877	9222	9567	9912	9 310 309			
59	1000257	0602	0947	1292	1637	1982	2327	2671	3010	3361	342 341			
1260	<b>37</b> 05	4050	4395	4739	5084	5429	5773	6118	0462	<b>0806</b>	1 34 34 2 68 68			
61	7151	7495				8873	_	9561	9905		2 68 68 3 103 102			
62	1010594	0938				1	2658		3346	_				
63	4034	4377	4721	5065		5752					5171 171			
64	7471	7814	8158	8501		9188			<b>0</b> 219	0562	6 205 205 7 239 239			
65	1020905	1249	1592	1935			2965		3651	3994	1205 205			
66		4680		5366			_	· · · · · · ·	7081	7423	9308307			
67		8109					9822		0507	0850	340 339			
68	1031193	1535			2562	2905	3247	3589	3932	1274	1 34 34			
69	4616	4958		5643		6327	6669	_	7353		2 68 G8			
1270	8037	8379	8721	9063		9747			0772		3 102 102			
71	1041456	1797		2480		3164	3505	_	4188	1114 4530	4 136 136 5 170 170			
72		5213							7602		6 204 203			
73		8625	8966	9307	9648	1	<b>O</b> 331		1012	1353	7 238 237			
1	1051694	2035	2376	2717	3058		_	4080		4761	8272 271			
75	1	5442			1		1				9306305			
76		8847		6124 9528		6805 <b>02</b> 08			1	8166	338 337			
77	1061909	2249		2929		3609	1	0889 <b>42</b> 89	1229 4 <b>02</b> 9	1569 4969	1 34 34 2 68 67			
78		5648		6328	1 3	7007			8026	8366	3 101 101			
79		9045		9724		0403		1	1421	1760	4 135 135			
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81	5491	5830	•		•	3796 7186				5152	7 237 236			
82	_	9219				0574		78 <b>64</b> 1251		8541	8270270			
83	1082267	2005	1 -			3959		4635	1590 4974	1928 5312	9 304 303			
84	_					7341	7679	8017	8355	8093	336335			
85		9 <b>36</b> 9		I						,	1 34 34			
86	1092410		9707 3085		0383					2072	2 67 67 3 101 101			
87	5785	6123		1 -		4098 7472		1	-	<b>5448</b>	4 134 134			
88	9159	9496	•			0844		1	8484		5 168 168			
89	1102529	2866		3540		4213	4550				1 -1-0-1-0-1			
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91	9262 111 <b>26</b> 25		L			0944		• •	1953		334 333			
92 93	5985				3969		4642		5313	1	1 33 33			
93		6321 9678	6657 <b>0</b> 014					1	8671	9007	2 67 67			
	<b>.</b>		1			1021		1691	2027	1	3 100 100			
95	1122698					4374		5045			4 134 133   5 167 167			
96	6050		1 —			7725					6 200 200			
97	9400	9735			0739	1074	1408	1743	2078	!	7 234 233			
98 99	1132747	3081			4085	1	B		5423		8 267 266			
-	6092	6426		7094	7429	7763	8097	8431	8765		9 301 300			
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N.	0		2	3	4	5	6	7	8	9
1300	1139434	9768	0102	0456	0770	1104	1437	1771	2105	2130
01	1142773	3107	3441	3774	4108	4442	4775	5101	5443	5776
02		0443	6777	7110	_	7777	8111	8444	8777	9111
05	9444		_	0444 3775	_			1777		2443
04	1152776		3442	_	1108	4441	4774	5107	5439	5774
0.6		5433		7103	7436	7709	8101	8434	8767	9098
06	1162756	9764		37.53	0782	4417	1427	1753 3081	2001 5413	24 <b>2</b> 4 5745
08	6077	644)9		7073	7405	7737	8009	8401	8733	9065
09				0392		1055	1387	1718		2581
1310	1172713	_	3375	_	4034	4370			_	5690
11		_	6689			7683		8345		
12	9339		0000		0002	1	1324	165		2310
13	1182647	_	3309		3970	4301	4631	4962	5293	5625
14	5954	6284	6615	6945	7276	7606	7936	8207	8597	8927
15	9258	9588	9918	0218	0578	0909	1299	1569	1899	2220
16	1192559	2889	3219	3549	3879			4868	5198	5528
17				6847				8185		
18	9154			0143		10801	1131		1789	
19	1202448		_	3436		_	4423	+752	3081	5110
1320				6726			7713			9699
21				0014	0343	1	1000		1657	1986
22	1212315					3957	4285		4942	
23				6583 9864		723 )	7568 0848	7896 1175	1503	1331
	8880	_		_						
25	1222159			31 #2 6418		3797	4125	4453 7727	4730	
26 27				9691			0672		8055 1 <b>327</b>	_
28	_	_		2062		3016	3942	1269	4598	_
29	5250			6230		6883	7210		7863	_
1330		_	9160	9496	9822	0140	0475	0802	1128	_
31	1241781					3412		1064		
32				6020		5072			7650	
33	8301	8027	8953	9279	9605	1930	$\overline{0}256$	0582	0907	1233
54	1251558	1894	2209	2535	2860	3186	3511	3837	4162	1457
35	4813	5138	5463	5788	6114	0139	6764	7040	7314	7739
56			_	9040			5015	0339	0664	0089
37	1261314	_				2939			3912	_
38	4561			5535		0181			7157	7 181
39	7806		8454	8779	9105		9751	0076		
1340	1271048				2344	2668	2992	9316		
41					2243	5907	9230	0551	7878	7202
42	7525 1280760			8496 1730		9143 2377	7400 2700	324()		_
43	3993		4039			5008	5931	0254		3570 6900
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45 46	1290451	_	1098			2064		2704	_	
47	3076	_	4321	4643		5288	_	5952		6577
48	6899	_		_	8187	8510		9154		_
49	1300119	_	_	1085	1407	1729	2051	2372		3016
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1	3500 L	. 130		0	F NU	MBE	_				(13)	
N.	0	1	2	3	4	5	II.	7	8	9	Differ,	
1330	1303338	3659	3981	4303	4624	4946	5267	5589	5911	6232	(322)321	
51	6553	6875	7196	7518	7839	8161	8482	8803	9124	9440	1 32 32	
52	9767	0088	0409	0730	1052	1573	1694	2015	2336	2657	2 64 64	
59	1312978	3299	3620	3941	4262	4583	4903	5224	5545	5866	3 97 96	
54	6187	6507	6828	7149	7469	7790	8111	8431	8752	9072	4 129 128	
55	9393	9713	0034	0354	0675	0995	1316	1636	1956	2277	6193193	
	1322597	2917	3237	3558	3878	4198	4518	4838	5158	5478	7 225 225	
57	5798	6119	6439	6758	7078	7398	7718	8038	8358	6678	8 258 257	
58	8998	9317	9637	9957	0277	0596	0916	1236	1555	1875	9 290 289	
59	1332195	2514	2834	3153	3473	3792	4112	4431	4750	5070	320 319	
1360	5389	5708	6028	6347	6666	6985	7305	7624	7943	8262	1 32 32	
111	8581	8900	9219	9538	9857	0176	0495	0814	1195	1452	2 64 64 3 96 96	
62	1341771	2090	2409	2728	3046	3365	3684	4003	4321	4640	4 128 128	
63	4959	5277	5596	5914	5233	6551	6870	7198	7507	7825	5 160 160	
- 64	8144	8462	8780	9099	9417	9735	0054	0372	0690	1008	6 192 19 E	
65	1351327	1645	1963	2281	2599	2917	3235	3553	3871	4189	8 256 255	
66	4507	4825	5143	5461	5779	6096	6414	6732	7050	7367	91288 287	
67	7685	8003	8320	8638	8956	9273	9591	000	0226	0543	1318 317	
58	1360861	1178	1496	1813	2131	2448	2765	3083	3400	3717	1 32 32	
69	4034	4352	4669	4986	5303	5620	5937	0255	6572	6889	2 64 📠	
1570	7206	7523	7940	8157	8473	8790	9107	9424	9741	0058	3 95 95 1127 127	
71	1370375	0691	1008	1325	1641	1958	2275	2591	2908	3225	5 139 159	
72	3541	3858	4174	4491	4807	5124	5440	5756	6073	6389	6 191 190	
73	6705	7022	7338	7654	7970	8287	8603	8919	9235	9551	7 223 223	
74	9867	0183	0499	0815	1131	1447	1763	2079	2395	2711	9 286 285	
75	1383027	3343	3659	3974	4290	4606	4922	5237	5553	5869	13161315	
76	6184	6500	6816	7131	7447	7762	8078	8393	8709	9024	1 32 32	
77	9339	9655	9970	0285	0601	0916	1231	1547	1862	2177	2 03 63	
78	1392492	2307	3122	3438	3753	4068	4383	4698	5013	5328	3 95 95	
79	5643	5958	6272	6587	6902	7217	7532	7847	8161	8476	4 126 126 5 150 158	
1560	8791	9106	9420	9735	0050	0364	0679	0993	1308	1622	6 190 189	
BI	1401937	2251	2566	2880	3195	3509	3823	4138	4452	4766	7 221 221	
82	5080	5395	5709	6023	6337	6651	6966	7280	7594	7908	8 253 252 9 284 284	
83	8222	8536	8850	9164	9478	9792	0106	0419	0733	1047	-1	
84	1411361	1675	1988	2302	2616	2930	3243	3557	3871	4184	314313	

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1200	0791812	$\overline{2174}$	2536	2898	3260	3622	3983	4345	4707	5068	862 361 360			
01	5430	5792				7238			8322	8683				
02	9045	9406	9767	<b>T128</b>		0851	1212		1934	2295				
03		3017	3378	3739	4100	4461	4822	5183	5543	5904				
04	6265	6626	6986	7347	7707	8068	8429	8789	9150	9510	14 145 144 144 5 181 181 180			
05	9870	<b>0</b> 231	0591	0952	1312	1672	2032	2393	2753	3113				
06	0813473			4553		5273	5633	5993	6353	6713	7 253 253 252			
07		7432					9231	9591	9950	0310	8 290 289 488 9 326 325 <b>324</b>			
08	0820667			1748	B (	2467		3185	3545	3904	359 358 357			
09	4263	4622	4981	5341	5700	6059	6418	6777	7136	7495	1 36 36 36			
1210	7854	8213	8571	8930	9289	9648	<b>0</b> 007	0365	0724	1083	2 72 72 71			
11	0831441	1800	_	2517		3234	3593	3951	4309	4568	3 108 107 107			
12	50 6	5385		6101		6817	7176	7534	7892	8250	1144 143 143			
13	8008	8966	9324	9682		0398			1 <u>-</u>	1829	5 180 179 179 6 215 215 214			
14	0842187	2545		3260		3975			5048	5405	7 251 251 250			
15					1	7550	7907	8264	8621	8979	8 287 286 286			
16	9336	9693	<b>0</b> 050	0407	0764	1121	1478	1835		2549	913231322 321			
17	0852906	3?63		3976		4690								
18			7186	7542	78.39	8255	8612	8968	9324	9681				
19	0860037	0393	0750	1106	1462	1818	2174	2530	2886	3242	2 71 71 71 3 107 107 106			
1220	3598	3954	t			5378	<b>5734</b>	6089	6445	6801	4 142 142 142			
21	7157	•		8 224	1	8935	9290	9646	<u></u> 0001	0357	5 178 178 177			
22	-			1778						3909	6 214 213  <b>212</b>   7 <sub> </sub> 249 249 2 <b>48</b>			
23		4620	_	5330	1	6040		6750		7459	8 285 284 283			
24	7814									1006	9 320 320 319			
25						3133				4550	353352351			
26		l i		5:007			7030			8092				
27	8446	•		· 507		<b>T</b> 215				1630	1911 <i>0C.</i> 10Clsa=F			
28		2337	2691			3752				5165	3 106 106 105			
29	5519	5872			i ,	7285	l I	7992	8345	86.)8	5 177 176 176			
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31	0902581	1		3639				5049		5755	7 24 <b>7 246 246</b> 8 282 <b>282 281</b>			
32	3							8574			9 318 317 316			
33	9631	1		0687		1392					15501349 349			
34	1	3504			1	4911	ſ	5614	<i>5</i> 9 <b>6</b> 6	6318	1 35 35 35			
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7 158		1461	1234	1007	0781	0554	0327	<u>0</u> 100	9873	9646	9419	14	
e 14 <b>43</b>		3729	3502	3275	801B	2822	2595	2368	2141	1915	282158×	15	
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1 29		0523	0297	₹07 I	9844	9618	9392	9165	8939	9712	8480	16	
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	226	5048	4821	4595	4369	4143	3917	3691	3465	323B	3012	920	
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5 130	1	9567	9341	9115	8884	8663	8438	8212		7760	7534	22	
114		1825	1599	1373	1148	0.122	0696	0170	0245	_	9793	23	
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1 22		8502	8306	3141	7916	7690	7405	7234	7014	6788	6563	26	
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4 90		5318	5123	4898	1673	4448	1223	3198	3779		3322	29	
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02	7548	7789	8030	8271		8753	8994	9235	9475	9716		2 48 3 72
03	9957	0198	0439	0680	0921	1161	1402	1643	1881	2125		4 96
04	2562365	2606	2847	3087	3328	3569	3810	4050	1291	4531		5 120 6 144
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15	8766	}	į.	9484		9463			0680	6160		8 191
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1820	2600714	0952	1191	1430	1668	1907	2145	2384	2622	2861		4 95
21	3099	3338		3815	1053	4292	4530	4769	3007	5245		5 1 19 6 1 4 3
22	<b>54</b> 84	57 22	5960	6199	0437	6675		7152		7628		7 167
23	7867		8343			9058		9534		0010		8 190
24	2610248	0486	0725	0963	1201	1439	1077	1915	2153	2391	238	9(214
25	2629	2867	1	3343		3818	<b>40</b> 56		4532	4770		237
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27	7385	7623	l	8099	1	8574		9010		9524		3 71
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37	2641092	1328	1					2746		3219		4 94 5 1 18
38	3455	3691	3928	1	4400	4636	4873	5109	5345	5581	1	6142
39	5817	6053	6290	6526	6762	6998	7234	7470	7706	7942	236	7 165
1840	8178	8414	8650	8886	9122	0358	9594	9830	0066	0302		8 189 9 212
41	2650538					1717		2189	2125	2660		
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51	9657	9868	0800	0292	0504	0715	0927	1139	1350	1562		
52	3121774	1985	2197	2408	2620	2832	3043	3255	3466			212
53	3889				4736			5370		579 <b>3</b>	1	1 21 2 42
54	6004	6216	6427	6639	6850	7061	7273	7484	7696	7907		3 64
55	8118	8330	8541	8752	8964	9175	9386	9597	9809	<b>ნ</b> 020		4 85
56	3130231	0442	0654	0865	1076	1287	1498	1709	1921	2132		5 106 6 127
57	2343				3187	l <b>i</b>	3610		_	4243	211	7 148
58	4154	_		1	. 1	5509				6353		8 170
59	<b>656</b> 3	0774	6985	7196	7407	7618	7829	8040	8251	8461	1	9 191
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62	2887				3729	16			4571	4782		1, 21
63	4992				5834		•	·		6887		2 42
64	7097	7307	7518	7728	7939	8149	8359	8570	8780	8990		3 63
65	9201			9831	0042	0252		0672	ł			4 84 5 106
66	3151303	1513	1724	1934	2144	2354		2774				6 127
67	3405				4245			4875			210	7 148
68	5505	5715	5925	6135	6345	6555	6765	6975	7185	7395		8 169 9 190
69	7605	7815	8025	8235	8444	8654	8864	9074	'	9494	}	91180
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72		4107	4317	<b>4</b> 526	4736	4945	5155	5364	5574	5784		1 21
73						7040						2 42 3 63
74	8088	8297	8506	8716	8925	9134	9344	9553	9762	9972		3 63 4 84
75	3170181	0390	0600	0809	1018	1227	1437			1		5 105
76	2273					3319		3738				6 126
77		4574	4783	4992	5201	5410	5619	5828	6037		209	7 147
78						7500				8336		8 168 9 189
79			8963	9172	9380	9589	9798	<b>0</b> 007				
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81	2721					3764	_	4181	l.	1		200
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85	3191061					2102		2518		2935		4 84 5 105
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04	6669	6898	7126	7354	7582	7810	8038	8266	ł	8722	228	5 114
05	8950	9178	9406	9634		<b>Q</b> 080		0545	0773	1001		6 13 <b>7</b> 7 160
06	2801229	1457		1912				l		3279		8 182
07	3507	3735	3962	4190		4645	4873		5328	5556 7832		9 205
08	5784	6011	6239	6467 8742	6694 89 <b>69</b>	69 <b>2</b> 2 91 <b>9</b> 7	7149 9424		1	0106		227
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21			5726			6404	4		7082	7308	Ħ	5 1 1 <b>3</b> 6 1 3 <b>6</b>
22			7986		8438	8663	8889	9115	9341	9567	1 .	7 158
23	9793	<b>O</b> D19	0245			0922	1148	1373		1		8181
24	2842051	2276	2502	2728	<b>2953</b>	3179	3405	3630	3856	4082		9/203
25	4307	4533	4759	4984	5210	<b>543</b> 5	5661	5886	6112	6337	H	225
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28			1	1746		2196	1	2647		3097		4 90
29		3547	1	3998		1	1	4898			225	5 1 13 6 135
1930		5798	I	6248		11			7373			7 158
31	7823			84.37	1	8947	•	2		9846 2094		8 180
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42				3163			3834	4057		450+		223
43	4728	4952	5175	5399	5622	5845	6069	6292				1 22 2 45
44	6963	7186	7409	7633	7856	8079	8303	0526	8749	8973		2 45 3 67
45	9196	9419	9643	9866	<b>0</b> 089	0312	0536	0759	0982	1205	223	4 89
46		1		9	,	2544		2990	3213		~23	5 1 12 6 134
47		2	7	4329		4775	4		5444			7 156
48		6112		6558		16	1	1				8 178
40	8118	8341	8564	8787	8010	9232		9678	<u> </u>			91201
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6404	6606	บรอร	7010	7212	7414	7015	7817	8019	8221		
8423	8624	3820	9028	9230	9432	9633	9835	<b>O</b> 037	0239	,	202
3330440	0642	0844	1045	1247	1449	1650	1852	2054	2255		1 20
2457	2659	2860	3002	3263	3465	3667	3808	4070	4271		2 40
4473	4674	1876	5077	5279	5480	5682	5883	6085	6286	j	3 61 4 81
6488	0689		70,12	7293	7495			8099	8300		5 101
8501	8703	1	9105	9307	9508			_	0313		6 121
3340514	0716	0917	1118	1319	1521	1722	4	2124	2325	Ì	7 141
2526	2728	2929	3130	3331	3532		3934		4336		8 162 9 182
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<b>45</b> 38	4739	· ·	5141	5342		_			)		
6548	6749	1	7151	7351	7552	_			8356		
8557	8758	8959	9159	9360		9762		0164			201
3350565	0766	0967	1168	1368	1569	_		2171	2372		1 20
2573	2773	2974	3175	3375	3576		3077	4178	4378		2 40 3 60
<b>4</b> 579	4780	4980	5181	5381	5582	5782	5983	6183	6384		4 80
<b>65</b> 85	6785	6986	7186	7386	7587	7787	7988	8188	8389		5 101
<b>85</b> 89	8790	8990	9190	9391	9591	9791	9992	0192	0392		6 121
3360593	0793	0993	1194	1394	1594	1795	1995	2195	2395		7 141
<b>25</b> 96	2796	2996	3196	3396	3597	3797	3997	4197	4397		8 161 9 181
4597	4797	4998	5198	5398	5598	5798	5998	6198	6398	1	3101
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4593	4792	1992	5192	5391	5591	5791	5990	6190	6389		4 80
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8584	8784	8983	9183	9382	9582			I	0379		6 120 7 140
3380579	0778	0978	1177	1376	1576		1974		2373		8 160
2572	2772	2971	3170	<b>336</b> 9	3569	3768	3967	4166	4366		9 180
<b>4</b> 565	4761	1963	5163	5362	5561	5760	5959	6158	6358		
<b>6</b> 557	675ช	<b>6955</b>	7154	7353	7552	7751	7950	8149	8348	199	
8547	8746	8940	9145	9344	9543	9742	9940	<b>T139</b>	0338	199	199
3390537	0736	0935	1134	1333	1532	1731	1930	2129	2327		1 20
<b>2</b> 526	2725	2924	3123	3322	3520	\$719	3918	4117	4316		2 40
4514	4713	4012	5111	5309	5508	5707	5906	6104	6303		3 60 4 80
<b>6</b> 502	6700	0899	7098	7296	7495	7693	7892	8091	8289		5 100
8488	8080	8885	9084	9282	9481	9679		0076	0275		6 119
3400473		0870	1009	1207	1466		1862	2061	2259	ii	7 139
2458	2656	2854	3053	3251	3449	3648	3846	4045	4243		8 159
	ĺ	ļ	<b>'</b>		1	5631					91179
4141	4039		5036	5234	5433		5829	6027	6226		· •
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3410386	1	0782				2551			2168		2 40
<b>2</b> 366	J	2762	2960	1		3554			4147		3 59
4345	4543	4741	1	5137	5334		5730		6120		4 79
6323	6521	6719	<b>1</b>	7114	7312	7510	) I		8103		5 99
8301	8498	8696	8394		9289		9684		0079		6 1 19 7 1 39
3420277	0474	0672	0570		1265				2055		8 158
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03						7893					i	2 43 3 65
04	8977	9194	9411	9627	9844	<b>0</b> 061	0277	0494	0711	0927		4 87
05	3021144											5109
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07						6556						8174
08						8718	8935	9151	9367	9583	i	9 195
09	9799	0016	0232	0448	0664	0880	1096	1312	1528	1745	216	
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15	2751	2966	3120	3397	3613	3828	4043	4259	4474	4690		5 108
16	4905	5121	5998	5552	5767	5982	6198	6413	6628	6844		6130
17	7059	7274	7400	7705	7920	8135	8351	8566	8781	8996		7 151 8 173
18	9212	9427	9642	9857	0072	0288	0503	0718	0933	1148		9 194
19		1578	1793	2008	2224	2439	2654	2969	3084	3299	,	-
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22	7610	2026	0093	8456	8671	8885	0100	0315	0520	0744		1 22
23	0050	7174	0241	0603	0817	1032	1247	1461	1676	1801		2 43
24	1	2320	0500	2740	2063	9179	9900	3607	3821	4036		3 65
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25						5322						5 108 6 129
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28		9794	1108	QARQ	2877	3891	4105	4910	4590	4746		91194
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42	3100557	0770	0983	1195	1408	1621	1833	2046	2258	2471		1 21
43	2684	2896	3109	3321	3534	3746						2 48
44	4809	5021	5234	5440	5659	5871	6084	6296	<b>65</b> 08	6721		3 64
45	ROSS	7145	7958	7570	7783	7995	8207	8410	8632	8844		4 85
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3521825	2018	2211	2404	$\overline{2597}$	2790	2983	3176	3369	3562	193	
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5684	5877				6648	6841	7034	7226			193 1 19
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1				1	1						3 58 4 77
3531465 3391	1658 3583		2043 3968	2236 4161	2428 4353	2621 4546	2813 4738	3006 4931	3198 5123		5 97
<b>5316</b>	5508		•	6085		6470		6855	7047		6116
7239	7432		1	7 7	8201	8393	8586	8778	8970		7 [35 8 154
9162	9355		9739	9931	l —	0316	0508	0700	0892		9174
3541084	1277	1469	1661	1853	2045	2237	2429	2621	2814		
3006	3198		3582	3774			4350	4542	4734	192	100
4926	5118	5310	5502	5694	5886	6078	6270	6462	6654	182	192
6846	7037	7229	7421	7613	7805	7997	8189	8381	8572		1 19 2 38
8764	8956	9148	9340	9531	9723	9915	<b>0107</b>	0299	0490		3 58
3550682	0874	1066	1257	1449	1641	1832	2024	2216	2407		4 77 5 96
<b>259</b> 9	<b>27</b> 91	2982	3174	3366	4 1	3749	3940		4324		6115
4515	4707	4898	5090	5281	5473	5664	l	6048	6239		7 134
6431	6622			7196		7579	7771	7962	8154		8 154
8345	8536			1			1	1	0067		9 1/3
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5994	6185	4		6759	1	7141 9050		7523 9 <b>43</b> 2	7714 9623	191	2 38
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5059	5249			1	6010		1 _	6581	6771		1 19
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3590762	0952			1	· -	1902		2282	2472		5 95
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<b>4</b> 560	4750	_		_	5509				6268	]	8 152
6458	6648	6837	7027	7217,	7406	7596	7786	7976	8165		9 171
8355	8544	8734	8924	9113			9682				
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2146		2525		1	3093	i .					189
4041	4230				4987				. 4		1 19 2 38
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3611610	1799			2300 4256			293 <b>3</b> 482 <b>3</b>		3311 5201		7 132
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2300	3617278	7467	7656	7845	8034	8222	8411	8600	8789	8977	
01	9166	9355	9544	9732	9921	Q110	0298	0487	0670	08ü5	
02	3621053	1242	1430	1619	1808	1996	2185	2374	2562	2751	
03	2939	3128	3317	3505		3882	4071	4259	4418	4636	
04	4825	5013	5202	5390	5579	5767	5956	6144	6332	0521	
05	6709	6898	7086	7275	7463	7651	7840	3028	8216	8405	
06	8593			9158	9346	9535	9723	9911	QO33	0288	
07	3630476			1041	1229	1417	1605	1794		2170	
08	2358			2923	3111	3299	3487	3075	•	4051	100
09	4239	4427	4615	4804	4992	5180	5 <b>3</b> 68.	5.550	5744	5332	138
2310	6120	6308	6496	6684		7060	7248	7.136	7621	7812	
11	<b>799</b> 9	I —		8503		8939	9127	9315		9990	
12		0066				17	1005	1193	1381	1500	ł
13	3641756				2507		2883	3070		3446	
14	3034	3821	4009	4197	<b>+384</b>	4572	4759	1947	5135	5322	
15	5510	<b>56</b> 98	5885	6073	6260	6448	6635	6823	7010	7198	
16	7386	7573	7761	7948	8136	8323	8511	8698	8883	9073	
17		9448			<b>0010</b>		0385	0572	0700	0947	ł
18		I			1881		2258	2146		2820	[ ]
19	3007	3195	3382	3569	3757	3944	4131	1318	4:02	4693	
2320	4880	5067	5254	5441	<b>562</b> 9	5810	6003	6190	6377	0564	İ
21	6751	6939	7126	7313	7500	7637	7874	.≾061 ¦	8248	8435	1
22		8809			9370		9744	9931	បាន	0305	187
23	3660492					1427	1614	1801	1987	2174	
24	2361	2548	2735	2922	3109	3296	3482	3669	3850	4048	
25	4230	4416	4603	4790	4977	5163	5350	5537	5721	5910	
26		6284					7217	7404	7591	7777	
27						8897		9270	9457	9643	
28		B				0762	1	1135	1	1508	
29	3671695	1881	2068	2254	2441	2627	2814	3000	3180	3373	}
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33	_	9334	1			<b>0</b> 078	•	0150	<b>i</b>	0822	1
34	3681009	1195	1381	1507	1753	1939	2125	2311	2497	2083	180
35	1				3613	1	3985	4171	4357	4542	
36	_	1	4	ı		5658	(	1	6215		
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46		3 105			•	4200	1	1570		4:140	T.
47	5131	5310				0056	•	6426		67.16	185
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52	8423	8624	3820	9028	J230	9432	9633	9835	<b>O</b> 037	0239		20
53	3330440	0642	0844	1045	1247	1449	1650	1852	2051	2255		1 2
54	2457	2059	2860	5052	3263	3 105	3667	3808	4070	4271		2 4 3 6
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67					9391	1			•	1	"	6 12 7 14
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74	2595	2795	2995	3195	3394	3591	3794	3994	4193	4393	į.	2 4
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76		6788	<b>N</b>	1		7587		1		1		5 10
77		8784	8983	9183	9382							6 12 7 14
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79	2572	2772	2971	3170	3369	3569	3768	3:)67	4160	4360		9118
2180	4505	4761	1963	5163	5362	5561	5760	5959	6158	6358		
81	6557	0750	0355	7154	7353	7552	7751	7950	8149	8348	199	
82	T .	I	4	4	9344			ľ.	ı	-	.30	19
83	l .	1	1			A .		8	2129		<u> </u>	1 2
84	2520	2725	2921	3123	3322	3520	5719	3918	4117	4316		2 4
85	4514	4713	4912	5111	5309	5508	5707	5006	6104	6303		4 8
86	1			1	7296					8289		5 10
87	8488		•	1	9252	9481			_	0275		611
, 88		0072	0870	1069	1207	1460		1862		2259		7 13
80	2138	2656	2854	3053	3251	3449	5048	3840	4045	4243		917
2190	4 4 4 1	4 139	1838	5036	5234	5433	5631	5829	6027	6226		
91	6424	5622	6820	7018	7217	7415			<b>a</b>	8207		
92					9198							19
93											198	
94	1		1		3158	3350			<b>6</b>			3 5
95		I	•	1	5137	5334	5532	5730	5928	612ri		4 7
96		<b>B</b>		1	7114			2				5 9
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2200	9424227	4424	4622	4819	5016	5214	5411	5608	5806	6003	-	-
01	6200	6398	6595	6792	6990	7187	7384	7581	7779	7976		
02	8173	8970	8568	8765	9962	9159	9356	9554	9751	9948		198
05	3430145	0342	0539	0736	0933	1131	1328	1525	1722	1919		1 20 2 40
04	2116	2313	2510	2707	2904	\$101	3298	3495	3692	3889	197	3 59
0.5	4086	4283	4480	4677	4874	5071	5268	5464	5661	5858		4 79
00	6055	6252	6449	6646	6842	7059	7236	7433	7630	7827		5 99
07	8023	8220	8417	8614	8810	9007	9204	9401	9597	9794		6 119 7 130
08	9991	0187	0384	0581	0777	0974	1171	1367	1564	1761		8 156
09	3441957	2154	2350	2547	2743	2940	3137	3333	3550	3726		9 178
2210	3923	4119	4316	4512	4709	4905	5102	5298	5495	5691		
11	5887			6477	6673	6869	7066		7459	7055		
12	7851	8048			8636	8833		9225	9422	8169		197
13	9814	0010	0207	0403	0599	0795	0991	1188	1384	1580		1 90 2 39
14	3451776	1972	2163	2365	2561	2757	2953	3149	3345	3541	196	3 50
15	3737	3933	4129	4325	4522	4718	4914	5110	5306	5502	190	4 79
16	5698	5894	6090		6481	6677		7069		7461		5 99
17	7657		8049		8440	3636		9028	9224	9420		6118
18	9615	9611	0007	0203	0399		0790	0986	1162	1377		8 158
19	3461573	1769	1964	KTOO	2350	2551	27 47	2943	5138	3334	1	9177
2220	3550	3725	3921	4117	4312	4508	4703	4899	5094	5290		
21	5486	5681	5877	6072	6268	6463	1	6854		7245		
22	7441	7636	7851	8027	8222	8418	8613	0001	9004			196
23	9395		9785		0176	0371		0762	0957	1153		1 20
24	3471348	1543	1738		2129	2324	2519	2715		3105		2 30
	5500	3495	3691	3886	4081	4276	4471	4666	4961	5056		3 59 4 78
25 26	5252		3642		6032	6227		6617	6812	7007	195	b 98
27	7202		7592		7982	8177	8372	8567		8957	100	6118
28	9152		9542	9737	9951	0120	0321	0516	0711	0906		7 137
00	3481101	1296		1685	1880	2075	2270	2464	2659	2854		9176
	3049		3438		3528	4022	4217	4412	4606	4801		
2230 31	4996	5190	5385	5580	5774	5969	6164	6358		6747		1
31		7136			7720	7915	8109	8304	8498	8693		195
13	8887	9082	9276	9471	9665	9860	0054	0248		0637		1 20
34	3490832		1220	1415	1609	1804	1998	2192	2387	2581		
	2775		3164	3358	3552	3747	3941	4135	4330	4524		3 58 4 78
35 36	4718		5106		5495		5883	6077				96 6
37	6660	6854	7048	7242	7436		7825	8019	8213	8407		6117
38	8501		8989	9183	9377	9571	9765	9959	1	0347	194	7 187
39	5500541	0735	0929	1123	1317	1511	1705		2092	2286	194	9 175
2240	2480	2674		3062		5449	3643	3837	4031	4225		
41	2480 4419	4612	4806	5000	5194	5387	5591	5775				
4/2	6356		6743		7131	7325	7518	7712		8099		194
15	0330	8486	8680	8874	0067	9261	9454	9648	9841	0035		1 19
44		0422			1003	1196		1583	1777	1970		2 39 3 58
AR				2711				3517	1	3904		4 78

2163 2357 2550 2744 2937 3131 3324 3517 3711 3904 4098 4291 4484 4678 4871 5064 5258 5451 5644 5837 6031 6224 6417 6611 6804 6997 7190 7383 7577 7770 7963 8156 8349 8543 8736 8929 9122 9315 9508 9701 9895 7088 0281 0474 0667 0860 1053 1246 1439 1632

193 9 175

D Pts.

N.2	2500 L	. 352		(	OF N	UMB	ERS.		~ <del></del>			(18)
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
2250	3521825	2018	2211	2404	2597	<b>2</b> 790	2983	3176	3369	3562	193	
51	3755	3948	4141	4334	4527	1720	4912	5105	5298	5491		
52	5684		6070		6455	lf .		7034		7419		193 11 19
53		7805				8576		8961		9346		2 39
54	9539	9732		0117	0310	0502		0888	1080	l	1	3 58
55	_	_		2043			2621	2813		3198		4 77 5 97
56	3391	3583		3968	_			4738		5123		6116
57		5508		5893			6470	6662 8586		7047 8 <b>97</b> 0		7 135
58 59		7432 9355		7816 9739	1	8201 <b>0</b> 123		0508		0892		8 154 9 174
1		1			1		5			1		-
2260	3541084	1	1469	1661	1853	I.		2429		2814 4734	•	1
61 62		3198 5118			3774	5886	4158	4350	0462	,	192	192
63		7037	7229		1	7805		8189		8572		1 19
64	8764				9531	u e		0107		0490		2 38 3 58
65	3550682			1257		1641	1832	2024		!		4 77
66	2599	_	2982	3174		3557			4132			5 96
67	<b>4515</b>	4707		5090		5473		5856		6239	•	6 115 7 134
68		6622							9	8154		8154
69			8728		9111	9302	9493	9685	9876	<b>0</b> 067		9 173
2270	3560259	0450	0641	0832	1024	1215	1406	1598	1789	1980		
71	2171	2363		2745		18	1		3701	3892		
72	4083	4274	4466	4657	4848	5039	5230	5421	5612	5803		191
73	5994	6185	6376	6568	_	6950		7332			191	1 19 2 38
74	7905	8096	8287	8178	8668	8859	9050	9241	9432	9623		3 57
75	9814	<b>T</b> 005	•			0768		1150	1341	1532		4 76
76	3571723	1913	1 .			2677	4	3058				5 96 6 115
77	3630	i	4012			Y		X .		5347		7 134
78		5728			•	6430				7253	1	8 153
79				1	·	8		8777	1	- 1		9 172
2280		9539				0301		0682		1062	1	
81	3581253					2205 4105	4	•			1	1 90
82		3347 5249	_			0010	•	4	l		}	1 19
83 84	6961	7151	7341	7531						8672	190	2 38
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85 86	8862 3590762	9032 0952		1332						2472		5 95
87	<b>2662</b>	2852	_	3231		3611		3991		4370	<b> </b>	6114
88	4560					5509		-			•	7 133 8 152
89	6458	6648	6837			7406			7976	8165		9171
2290	8355	8544	8734	8924	9113	9303	9493	9682	9872	<b>5</b> 061		
91	3600251									1957		
92			2525	2715	2904	3093	3283	3472	3662	3851	1	189
93	4041	4230		_		4987		1		5745		1 19
94	5934	6123	6313	<b>წ</b> 502	6691	0881	7070	7259	7448	7638		2 38 3 57
95	7827			1		8773				_	189	4 76
96						0664						5 95
97	<b>36116</b> 10					2555						6 113 7 132
98	3500		3878			4445			5012			8 151
99	5390	5579	5768	<b>5950</b>	0145	6334		6712			<u> </u>	9170
N.	0	1	2	3	4.	5	6	7	8	9	D	Pts.

(32)				L	OGAR	ITHA	18		N. 9	2300	UL.	36
N.	0	1	2	3	4	5	6	7	8	9	D	l're
2300	3617278	7467	7656	7845	8034	8222	8411	8000	8789	8977	-	
01		9355			T .	YY	0298		1	08ü5		[
02	3621053			1619		r J	2185		1	2751		18
03	2939		1	1 .		3882	1	4259		4636		
04	4825		I	•		5767		_	1 1	6521		2 3
05		1	•	İ		17	7840		i i	8405		3
05		8781	6			11	9723	1		0288		5
07	3630476			· ·	1	17	7	1		2170		5 6 1
08			1	i e		3299		3675		4051		7 1
09		4427		4804		H				5932	188	81
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11		8187	l.	I		8939	1	9315		9990		
12				•		0817	I	1193		1569	ł	18
13	3641756	•				II .	4	3070	ł 1	3446	1 1	1
14	3634	3821	4009	4197	4384	4572	4759	1947	5135	5322	ł	2 3
15	5510	<b>56</b> 98	5885	6073	6260	6448	6635	6823	7010	7198		4
16						8323		8698		9073	H	5
17	9260	9448	9635	9823	0010	0197	0385	0572		0947	11	6 1
	3651134											7]]
19								1318				× 1
		ľ	i .	•			1		ľ		1	9/1
2320								6190		1		
21							7874			8435	!! 1 27	,,
22							9744			0305	1	18
23	3660492									2174		1 2
24	2361	2548	2735	2922	3109	3290	3482	3669	3850	4043		2 3
25	4230	4416	4603	4790	4977	5163	5350	5537	5721	5910		4
26	6097	6284	6471	6657	6844	7031	7217	7404	7591	7777		5
27							9083		9457	9643		61
28	9830	0016	0203	0389	0576	0762	0949	1135	1322	1508		7 1
29	3671695								3186	3373		91
<b>23</b> 30		ŀ		1		4491	i .	4864	5050	5236		
31						14	6540		1	7099		
32							8403					18
33				1		4	0264			0822		11
	3681009		1 .		, ,	1939	4	2311		2683	158	2 3
	_	1				1	j	}			1	3 4
35	·	3055	1			3799	<b>1</b>	4171		4542		5
36		4914	l .	4	1	5658		_	6215		}	61
37		I .		4		B	7702			8259		7 1
38		8631	P .	2		1	9559	1	, ,	0117		18
39	i		Į.	1	1				1	1973	1	911
2340	2159	2344	2530	2715	2901	3080	3272	3458	3643	3829	}	
41	4014	4200	4385	4.571	1756	4942	5127	3313	5498	5083		
42	5869	6054	0240	6425			6981	1		7538		18
43	7723	7908	8094	8279	8464	8650	8835	4020	9205	9391		11
44							0688			1213		2
45	3701428	1		j	1	1	2540			3005	1	3 4
46			ľ			4200		4576		<b>4946</b>	1	4 5
47					l I		6241	1		6796		61
		7166		7536		7906		1		,	100	7 1
48		9015		9385		I .		8275		8645		BI
49		9013			9.770		9939	$\overline{0124}$	0303	0494		9[1
N.I	0	1	2	13	4	5	6	7	8	9	D	P

500 L			0	F NU	MBE					_	(37)
0	1	2	3	4	5	6	7	8	9	D	Pro.
065402	5572	5742	5913	0083	6253	6424	6594	6784	6934		
7105	7275	7445	7615	7786	7956	8126	8296	8466	8937		170
8807	8977	9147	9317	9487	9658	9828	9998	0168	0338	l	3 12
070508	0678	0848	1018	1189	1359	1529	1699	1869	KWAND		2 34 3 51
2209	2379	2549	2719	2882	3059	5229	3399	3569	3739	170	4 68
3909	4079	4249	4419	4589	4759	4929	5099	5269	5439		5 85
5608	5778	5948	6118	6288	6458	6628	6798	6968	7137		6 102
7307	7477	7647	7817	7987	8156	8326	8496	8666	8836		7 119 6 136
9005	9175	9345	9515	9684	9854	0024	0194	0363	0533		0 153
080703	0873	1042	1212	1382	1551	1721	1891	10000	2230		
2400	2569	2739	2909	3078	3248	3417	3587	3757	3926		
4096	4265	4435	4604	4774	4944	5113	5283	5452	5622		
5791	5961	6130	6300	6469	6639	6808	6478	7147	7317		
7486	7656	7825	7994	5164	8333	8503	8672	8841	9011		
9180	9350	9519	9688	9858	0027	0196	0366	0535	070+		
1090874	1043	1212	1382	1551	1720	1889	2059	2228	2397		169
2567	2736	2905	3074	3243	3413	3582	3751	3920	4089	}	2 34
4259	4428	4597	4766	4935	5105	5274	5443	5612	5781		2 34 3 51
5950	I	6288	6458	6627	6796	6965	7134	7303	7472	169	4 68
7641	7810	7979	5148	8317	8486	8655	8824	8993	9102	109	5 88
9331	9500	9669	9838	0007	0176	0345	0514	0683	0852		6 10 J
4101021	1190	1359	1527	1696	1865	2034	2203	2372	2541		8 135
2710		3047	3216	3385	3554	3723	3801	4000	4229		9 152
4398		4735	4904	5073	5242	5410	5579	5748	5917		
6085	6254	6423	6592	6760	6929	7098	7266	7435	7604		
		ŀ		1	ll .	1					
7772		8110	8278	8447	8616	8784	8955	9121	92)0		
9459	1 -	9796	9964	0193	0301	0470	0639	0807	0976 2661	ł	
4111144	4	1481	1650 3334	1818	1987 3671	2155 3840	2324 4008	2492 4177	4345		1
2829 4513		3166 4850	5019	3503 5187	5355	5524	5692	5860	6029		168
	1	1	I -		II	1					2 34
6197		6534	6702	6870	7039	7207	7375		7712		3 50
7880		8217	8385	8553	8721	8890	9058	9226	9394		4 67
9562		9899	0067	0235	0403	0571	0740		1076		5 84
1121244		1580	1748	1917	2085	2253	2421	2589	2757	168	6 101 7 1 1k
2925		3261	3429	3597	3765	3933	4101	4269	4437		8 134
4605		4941	5109	5277	5445	5613	5781	5949	6117		9 151
6285	6453	6621	6789	6957	7125	7293	7461	7629	7796		
7961		8300	8168	8636	8804	8971	9139	9307	9475		
9643	9811	9978	0146	0314	0482	0649	0817	0985	1153		
F131 <b>3</b> 21	1488	1656	1824	1991	2159	2327	2495	[	2830		
2998	3165	9333	3501	3668	3836	4004	4171	4339	4507	ŀ	
467 +	4842	5009	5177	5345	5512	5680	5847	6015	6182		
6350		6685	6853	7020	7188	7355	7523		7858	1	167
8025				8695	8863	9030	9197		9532	ļ	1 17 2 33
9700	9867	0035	0202	0369	0537	0704	0872	1039	1206		3 50
F141374	1541	1708	1876	2043	2210	2378	2545	2712	2890	-	4 62
3047	3214	3381	3549	3716	3883	4051	4218	4385	4552		5 84
4719	4887	5054	5221	5388	5556	5723	5890	6057	6224		6 100 7 112
6391	6559	6726	6893	7060	7227	7394	7561	7729	7890		0 13
8063	8230	8397	8564	8731	8898	9065	9232	9399	9566	167	
0	1	2	3	4	5	6	7	8	9	D	Pts

$\overline{(34)}$				L	GAR	ITHM	S		N.	24000	) L.	380
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
2400	3802112	2293	2474	2655	2836	3017	3198	3379	3560	3741	181	
01	3922	4102	4283	4464	4645	4826	5007	5188	5368	1		
02	<b>573</b> 0	5911	6092	6272		6634		6995		7357		181
03	7538	7718	7899	8080			8622					1 18 2 36
04	9345	9525	9706	9887	<b>0</b> 067	0248	0428	0609	0790	0970		3 54
05	3811151	1331	1512	1693	1873	2054	_	2415		2776		4 72
06	2956	3137	3317	3498			4039					5 91 6 109
07	4761	4941	5122			5663	5843	6024		6384		7 127
08	6565	6745			1	7467	7647	7827	8007	8188		8 145
09	8368	8548	8729	8909	9089	9269	9450			9990		9 163
2410	3820170	0351	0531	0711	0891	1071	1252			1792		ŀ
11	1972	_ +	2332			2873	3053			3593	180	
12	3773	3953	4133	4313	4493		4853			5393		ł
13	5573	5753	5933			6473 8272	6653			7193 8992		
14	7373	7553	7732		8092	1	8452			1		
15	9171	9351	9531	9711		0070		0430				180
16	3830969	-	1329	1509		1868		2227	2407 4204	2587		1 18 2 36
17	2767	2946	3126		• :	3665 5461	3844	4024 5820		4383 6179		3 54
18	<b>6359</b>	4743			7077	I.V	7496	7815		7974		[4] <i>[</i> 3]
19						ll	1				1	5 90 6 108
2420	8154			8692		9051		9410	I	9769 1562		7 126
21		0127	0307			0845 2639	1	1203 2996				8 144
22 23	3841741 3534		3693	2279 4072		4430	•	4789	4 - 43 -			M163
24 24	5 <b>32</b> 6		5 <b>6</b> 84			6222		6580	A	6938		
					7834	ļ\$		8371	8550			
25 26	7117 8908			9445		9803		0161			179	1 1
27	38 <b>506</b> 98			1235		1592						
28	2487			3023		3381	_	3739	3918			,,,,
29	4275		· .			5169		5527	5705	ł I		179 1; 18
2430			6420		6778	6956	7135	7314	7492	7671		
31	7850		8297	8386		8743		9100				3 54
32	9636			0171	ľ	0528				1243		
33	3861421		1778	19.57	2135	2314	2492	2670	2849	3027		5 90 6 107
34	3206	3384	3563	3741	3919	4098	4276	4455	4633	4811		7 125
<b>3</b> 5	4990	5168	5346	5525	<i>5</i> 703	5881	6060	6238	6416	6595		8 143
36	6773		7129		7486		7842	8021	8199	8377		9/161
37	-	8733	8912		9268	9446	9624	9803				1
38	3870337	0515	0693	0871	) 1	1228	1				178	} {
<b>3</b> 9	2118		2474		2830		3186	3364	3542	3720	1,0	
2440	3898	4076	4254	4432	4610			5144	5322	5500		
41	<i>5</i> 678	5856	6034	6212	6389	6567	6745	6923		7279		
42	_	7634	1		1	8346	]	8701		9057		178
43		9412		9768		0123		0479				1 18 2 36
44	3881012	1190	1367	1545	1	1900		2256				3 53
45	1	2966	:	1	. ,	3677	3854			4387		4 71
46	4565	1	4920		1	5452		5807	5985	6162	[	5 89 6107
47	1	6517	6695		7050			7582		7937		7 125
48	I	8292 700t		ı	8824			9356				8 142
49		0065						1129				9 160
N.	0	1	2	3	4	5	6	7	8	9	1)	Pts.

500 L	423		0	FNU	MBE	Rs.					(39)
0	1	2	3	4	5	6	7	8	9	D	Pro.
232459	2623	2786	2950	3114	3278	3442	3606	3770	3933		
4097	4261	4425	4589	4753	4916	5080	5244				163
<b>57</b> 35	5899	6063	6226	6390	6554	6718	6881	7045	7209		1 16
7372	7536	7700	7864	8027	8191	8355	8518	8682	8846	į	2 33 3 49
<b>90</b> 09	9175	9336	9500	9664	9827	9991	0154	0318	0482		4 65
240645	0809	0972	1136	1300	1463	1627	1790	1954	2117		5 82
2281		2608		2935				3589	3752		
3916	1079	4242	4406	4569				5223			7 114 8 130
<b>5550</b>			6040		1	6530		1	7020		9 147
7183	7347	7510	7673	7837	8000	8163	8327	8490	8653		
8816	8980	9143	9306	9469	9633	9796	0050	0122	0286		
250449			0938	1102	1265						
2081			2570			3059					
3712		4038		4364	4527		4853				İ
5342				<b>5994</b>	6157		6483		-	163	
					7787						}
6972		7298				9579			•		
8601		0556	9090	0881	1	1207					
260230	2021								3323		
				4137							}
	}	6	1					_	1		
	•	1	_	5763	1				6576	j	
				7389	1			_			162
	8527		1		9177			_	- 14		1 16
	0152	1			0802		1		- I		2 32
271614	1770	1939	2101	2204	2426	2588	2751	5813	3076		3 49 4 65
3238	3400	3563	3725	3887	4050	4212	4374	4536	4699		5 81
4861	5023	5186	5348	5510	5672	5835	5997	61,59	ძ321		6 97
6484	6646	6808	6970	7133	7295	7457	7619	7781	7944		7 113
8106				8754	8917	9079	9241	9403	9565		8 130 9 146
9727	9889	0051	0213	0376	0538	0700	0862	1024	1186		5/140
<b>28134</b> 8	1510	1672	1834	1996	2158	2320	2482	2644	2806	162	ļ ,
	3130	1			3778					102	
-		•		5235	1				11		
6207	1000	1 .		6854		)					j
7825		1		8472	1				•		
	1	1		<u></u> 0090	1				0898		
291060				1		_			2515		
2677	1 -		3162	1	3485						•
4293	1	I .	4777		5100	1			71		i
-	6070				6715						
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	9298	i	1		9944		3				161
1300751		1	1235		1557	_			2202		1 16
	2525	1	1		3170		•				2 32
	4137	_	1	1	1		Į l	5265	H.		3 48
	5749		1				1	1		161	4 64 5 81
7199	1	ľ	7682		8004				8648		5 81 6 97
8809			9293		9615				91		7 113
1310419	1	1	0902	i i	1224	_			1868		8 129
2029	2190	2351	2512	2672	2833	2994	3155	3316	3477		9 145
0	1	2	3	4	5	6	7	8	9	$\overline{\mathbf{D}}$	Pts.
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(36)				L	DGAR	ITHE	48		N.	2500	0 L
N.	0	1	2	3	4	5	6	7	8	9	I D
2500	3979400	9574	9749	9921	0095	0269	0442	0616	0790	-	-
01	3981137	4311	1484	1658	1851	2005	2179	DATE	2526	2699	
110		3047		3394		3741	3914	4088	4261	4435	
03		4782		5129		5476	5649	7.0	5996	6170	
04		Ι.	6690	DEG		7210	7384	7557	7731	7904	ď
05		8251		8597		8944	9117	9291	9464		
00	9811	1034		0331		0677	0850			1370	
07	3991543		1890	_	2236	2409	2583	2756	2929	3102	
09			5353	3795 5598	5699	5872	4314 6045	4487 6218	4660 6391	4834 6564	1
2510		6910	7083	7256	7429						173
11		8640		6986		2000	7775 9505	7948	81 <b>#</b> 1 9851	0023	
12	4000196		0542	0715		1061	1234		1579	1752	
13		1077	2271	2443	2616	2789	2902		3307	3480	
14	3653	3825	3998	4171	4344	4516	4689	1109	5035		
15	5380	5553	5725	5898	6071	6243	6416	0558	6781	6934	
16	7106	7279	7452	7024	7797	7969	8142	8314	8487	Ross	
17			9177	9350	9522	9695	9867	0040	0212	0385	
- 11	4010557		0902	1075	1247	1420	1592	1764	1957		
19	2232	2454	2026		2971	3144	3316	1111	3061	3833	
2390		4178	4350		4695	4867	5039		5984	5556	1
21		5901		6245		6590	_	6934		7279	
22	_	7623 9545	7795 9517	7967	8140 9861	8312 0035	8484 0205	8656	8828		1
24		1066	1238		1582	1754	1926	2098	0549 2270	0721 2442	170
25	2614		2958	3130	9302	3474	3646		3990	4162	112
26			4077	4849		5193	5365		5709		
27			6396			1	7083		7427	7599	i
28	7771	7942	8114	8286		8630	8801	8973	9145	9317	
29	9488	9660	9832	<b>5003</b>	0175	0547	0519	0690	0842	1034	
2530	4031205	1377	1549	1720	1892	10003	2235	2407	2578	2750	
91		3093	REMI	3436		3779	3951	4122	4294	4465	
32				5152		5495	5666	5838	6009	6180	
33		6523 8237	6695 8409	8580	7038 8752	7209 8925	7381 9094		9437	7895	
35			0122	0294						9608	
35	4041492		1835	2006	2177	2349	0807 2520	0979	1150 2862	1321 3033	
37		3376	3547	3718	3889	4061	4232		4574	4745	
38		5087	5258							6456	
39	6527	6798	6969	7140	7311	7482				8166	
2540			8679	8850	m021	9192	9363	9534		9876	
41	4050047					0901	1072	1243	1414	1585	
42			2097			2610				3293	
MA 4.4			9805				4488		4830		
44					5854	1	6195	d36 <b>d</b>	1	6707	
45		7049	7219	7390	7560	7731	7902		8243	8413	
46 47	4060289	0.480	0925	0000		9437			1945		
48			2335	2506	0971 2676	1142 2846	1312 3017	1483	1653	1824	
49			4039	1000 m	4380	4550	4721	3187 4891	3001	3528 5231	
N.	0	1	2	3	4	5	6	-33.	7771	0.031	

27500 L	. 439	)	OF	NU	MBEI	R8.					(41)
0	1	2	3	4	5	6	7	8	9	D	Pro.
4393327	3485	3643	3801	3959	1116	4274	4432	4590	4748		
4906	5064	5222	5379	5537	5695	585 <b>3</b>	6011	6169		l .	158
6484	6642	6800	6958	7115		7431	7589	7747	7904		11 16
8062		2	8535			9009	1	9324	9482		2 32 3 47
9639	9797	9955	0112	0270	0428	0585	0743	0901	1058		4 63
4401216	1374	1531	1689	1847	2004	2162	2319	2477	2635		5 79
27.92	2950	3107	3265	3422	3580	3738	3895	4053	4210		6 95
4368	4525	4683	4846	<b>4</b> 998	5155	<b>b</b>	5470		5785		8 126
5943	6100	<b>62</b> 58		6572	6730			9			9142
7517	7674	7832	7989	8147	8304	8461	8618	8776	8933		
9091	9248	9406	9563	9720	9878	<b>T</b> 035	0192	0349	0507	j	
4410664	0821	0979	1136	12.33	1450	1608	1765	1922	2080		
2237	2394	255 l	<b>2</b> 708	2866	3023						
3809		4123		4438				5066	1 1		
5380	<i>55</i> 38	5695	5852	6009	6166	6323	6180	6037	6794		
6951	7108	7265	7423	7580	7737	7894	8051	8208	8365	157	
8522	8679	8936	8993	9150	9307	9464	9621	9778	9935	137	1
4420092	0249	0405	0562	0719	0876			1347	1504		Ì
1661	1818	1975	2132		2445						
3230	3386	3543	3700	3857	4014	4171	4327	4484	4641		
4798	4954	5111	5268	5425	5582	5738	<b>5895</b>	6052	6209		٦
					7149						157
7932					8716				9342		11 16
9499	_	1			0282				8090		2 31
4431065	1221	1378	1534	1691	1847	2004	2160	2317	2473		3 47 4 63
2630	2786	2943	3099	3256	3412	3569	3725	3882	4038	}	4 63 5 79
4195	4351	4507	4664	4820	4977				1		6 94
			1		6541		6853			į l	7 110
4					8104		1				8   126 9   141
8885	9042	9198	9354	9511	9667	9823	9979	0136	0292		
4440448					1		1				
					2791			_			
•		l .			4352	_		1	1 _ 1	156	
		1			5912						
6692					7472		•	ŀ			
8252					9032				•		
9811	l				0590						
4451370					T .			1			
2928			3395		3706 5264					i	
4485		4797			1			1	588 <b>6</b>		
					6820				ľ		
7598		7910			8376	I	1				118
			9621		9932			0398		}	156 1  16
4460709 2264		2575	1	2886			1798 3352		2109 3663		2 31
1						_			_ 1		3 47
	3974	_	4284		4595		4906		5216		4 62 5 78
5372		5682		5993			6459	į i			6 94
	7080				7701			8167	8322		7 109
8477 44700 <b>2</b> 9	8632 0184		89 <b>43</b> 0 <b>4</b> 94		9253 0805		95 <b>63</b>		9874 1 <b>4</b> 25		8 125
[					·						9140
0	]	2	3	4	5	6	7	8	9	1)	Pts.

<u>(38)</u>				I	OGAI	RITHI	MS	,	N.	2600	) L.	414
N.	0	1	2	3	4	5	6	7	8	9	D	Pro
2600	4149733	9901	0068	0235	0402	0569	0736	0903	1070	1237	167	
01	4151404	_	1737	1904	2071	2238	2405	2572	2739	2906		16
02	3073	,	3407	3574	3741	3907	4074	4241	4408	4575		
03	4742	4909	5075	<b>5242</b>	5409	5576	5743	5909		6243		3 8
04	6410	6577	6743	6910	7077	7244	7410	7577	7744	7911		4
05	8077	8244	8411	8577	8744	8911	9077	9244	9411	9577		5 8
06	9744	9911	0077	0244	0411	0577	0744	0911	1077	1244		6 10
07	4161410	•	1743	1910	2077	2243	2410	2576	2743	2909		7 1 1 8 13
08	3076	3242	3409	3575	3742	3908	4075	4241	4408	4574		9 18
09	4741	4907	5074	5240	5407	5573	5739	5906	6072	6239		
2610	6405	6571	6738	6904	}	7237	7403	7570	7736	7902		
11	8069	8235	8401	8568	,	8900	9067	9233		9565		
12	9732	9898	0064	0231	0397	0563	0729	0895	1062	1228		
13	4171394	1560	1726	1893	2059	2225	2391	2557	2724	2890		
14	3056	3222	3388	3554	3720	3886	4053	4219	4385	4551		
		•	1			tt	5713	5879	6045	6211	166	16
15	4717	4883	5049	5215	5381	5547	7373	7539		7871	100	
16	6377	6543	6709	6875 85 <b>3</b> 5	7041	7207	9033	9199	9365	9531		2 3
17	8037	8203	8 <b>36</b> 9 <b>0</b> 028	0194	8701	8867 0526	_			1189		4
18	ľ	9862		1852				2516		2847		5 8
19	4181355	1521	1687		1	2184						6 10
<b>2</b> 620	3013	3179	3344	3510		3842		4173		4505		7 1
21	4670	4836	5002	5167	5333	5499			5996	6161		8 13 9 14
22	6327	6493	6658	6824	6989	7155		7486		7817		
23	7983	8148	8314	8480	8645	8811	8976	9142		9473		ı
24	9638	9804	9969	<b>0135</b>	0300	0466	0631	0797	0962	1128		
25	4191293	1459	1624	1789	1955	2120	2286		2616	2782		
26	2947	3113	3278	3443	3609	3774	3939		4270	4435		
27	4601	4766	4931	5097	5262	5427	5593		5923	6088		
28	6254	6419	6584	6749	6915	7080	7245	i _ i	7575	7741		16
29	7906	8071	8236	8401	8567	8732	8897	9062	9227	9392		11
<b>26</b> 30	9557	9723	9888	<b>0</b> 053	0218	0383	0548	0713	0878	1043		2 3
31	4201208	1374	1539	1704	_	2034	2199	2364	2529	2694		3
32	2859	3024	3189	3354		3684	3849	4014	4179	4344	165	4 (5
33	<b>4</b> 509		4838	5003	5168	5333	<b>5498</b>	5663	<b>5</b> 828	5993		6
34	6158	6323		6652	6817	6982	7147	7312	7477	7641		7 1
35		7971	8136	8301	8465	8630	8795	8960	9125	9289		813
36	7806	9619		9948		0278			0772	0937		9114
30 37	9454	1266		1595		1925			2419	2583		
38	4211101 2748	2913		3242	1	3571	3736	3900		4229		
<b>3</b> 9	4394	4558	4723	4938	i .	5217	5381	5546		5875		
			'		!	1	1			7520		
2640		6204			•	6862	•	8835		9164		
41		7848	8013	8177		8506 0150		0479	0643	0807		16
42	9328	9493	9657	9821	1629	1793	6	•		2450		1,
43	4220972	1136	1300	1465	1	1		3761		4093		2 3
44	2615	2779	2943	3107	3271	3436						
45	4257	4421	4585	4749	<b>5</b> i	5078	_	1	5570	5734		4 (
46	5898	6063	6227	6391	6555	6719			7211	7375	1 1	5 6
47	7539	7703		8032						9016	164	71
48	9180	9344	9508	9672		0000		0328		0656	1 -1	813
49	4230820	0984	1147	1311	1475	1639	1803	1967	2131	2295		911.
N.	0	I ——	2	3	4	5	6	7	8	9	$\mathbf{D}$	Pt

N.2	8500 L	. 454	<del></del>	0	F NU	JMBE	RS.	<del></del>	<del></del>			(43)
N.	()	1	2	3	4	5	6	7	8	9	D	Pro.
2850	4548449	8601	8753	8906	9058	9210	9363	9515	9668	9820		
51	9972	<b>0</b> 125	0277	0429	1	0734	0886	1038		1343		152
52	4551495	1647	1800	1952		2257	2409	2561	2713	2865		1, 15
53	3018	3170	3322	3474	3627	3779	3931	4083.	4235	4388	ļ	2 30
54	4540	4692	4844	4996	5148	5300	5453	5605	5757	5909		3 46 4 61
55	6061	6213	6365	6517	6670	6822	6974	7126	7278	7430		5 76
56	7582	7734	7886	8038		8342			•	8950		6 91
57	9102	9254	9406	9558	9710	9862	δ014	0166	0318	0470	150	7 106 8 122
	_	1	'	1078	1230	1382	1534	1686	1838	1990	152	9 137
59	2142	2293	2445	2597	2749	2901	3053	3205	3357	3508	{	
2860	3660	3812	3964	4116	4268	4420	4571	4723	4875	5027		
61	5179	5330	5482	5634	5786	5938	6089	6241	6393	6545		
62		6848	7000	7152	7303	7455	7607	7758	7910	8062		
63						8972	9124	9275	9427	9578		
61	9730	9882	0033	0185	0337	0488	0640	0791	0943	1095		
65		1398	1549	1701	1853	2004	2156	2307	2459	2610		
66	2762	2913	3065	3216		1	3671	3822	3974	4125		1
67	4277	1428		4731		5034		5337	5489	5640		
68						6549			1	7154		
69	7305	7457	7608	7760	7911	8062	8214	8365	8516	8668		
2870		8970	9122	9273	9424	9576	9727	9878	<b>0</b> 029	0181		
71	4580332	0483	0634	0786	0937	1088	1239	1391	1542	1693		151
72		1996	2147	2298	2449	2600	2752	2903	3054	3205		1 15
73		3507	3659	3810	3961	4112	4263	4414	4565	4717		2 30
74	4868	5019	5170	5321	5472	5623	5774	5925	6076	6227		3 45 4 60
75	-70.0	6530	6681	6832	6983	7134	7285	7436	7587	7738	151	5 76
.76		8010	8191	8342	8493	8644	8795	8946	9097	9248	131	6 91
77	1 3030		1			0153	0304	0455	0606	0757		7 106 8 121
78	100000	1	•			1662			1			9 136
79		2567	2718	2869	3020	3171	3322	3472	3623	3774		
2880	1 0020	4076	4226	4377	4528	4679	4830	4980	5131	<b>5282</b>		
81	0 2.70	1	9	i .		6186		1		6789		
82	1					7693						
83	0	·	1	N .	_	9200	i .	1 .	ľ			
84	1	<b>D</b> 103	0254	0404	0555	0705	0856	1007	1157	1308		
85	1.0000				2060		f .	2512				
86	2000	3114	_		3565	3716		4017		4317		
87	7700	2	1			5220	l .	1 .	5671	5822		
88 89		6122		6423		6721		7024		7325		
		1	1	7926		8227	8377			8828		
2830				4		9730						
	4610481	3	1	0932		1232		1532		1833		,,,
92	1	2133	} .	2433	i i			3034	1	3334		150
93		3634	1 .	3935	1 .	4235	4385			4835		1 15 2 30
94	Ì	l .	5285	5435	Į l	5736		6036		6336	150	3 45
95		1	1	I .	7086	1		7536		7836		4 60
96	, _ •	1	i .	1	1 — 1			9035		9335		5 75 6 90
97	9485	9635	1	l.	1	0234		0554		0834		7 105
98 99	4620984	1134	1	Į.		1733		2033	2183 3680	2332		8 120
N.	2482	$\frac{2632}{1}$	2782	$\frac{2932}{0}$		3231	$\frac{3381}{6}$	3531		3830	-	9 135
W.	0	1	2	3	4	5	6	7	8	9	$ \mathbf{D} $	Pts.

(40)				LC	GAR	LTHM	8		N. 9	7000	) L.	431
N.	0		2	3	4	5	6	7	8	9	D	Pro.
2700	4313638	3798	3959	4120	4281	4442	4603	4763	4924	5085	161	
01	5246	5 107	5567	5728	5889	6050	6210	6371	6532	6693		161
02	6853	7014	7175	7336	7496	7657	7818	7978	8139	8300		1 16 2 32
03	8460	8621	8782	8942	9103	9264	9424	9585	9746	9906	1	3 48
04	4320067	0227	0388	0549	0709	0870	1030	1191	1352	1512	4	4 64
05	1673	1893	1994	2154	2315	2475	2636	2796	2957	3117	ì	5 81
00	3278	3438	3599	3759	3920	4080	4241	4401	4562	4722		6 97
07	4883	5043	5203	5364	5524	5685	5845	6005	6166	6326		8 125
08	6487	6647	6807	6968	7128	7288		7609	7769	7930		914
09	8090	8250	8411	8571	8731	8892	9052	9212	9372	9535	ļ .	
2710	9693	9853	0013	0174	0334	0494	0654	0815	0975	1135		
11	4331295	1455	1616	1776	1936	2096	2256	2416	2577	2737		
12	2897	\$057	3217	3377	3537	3697	3858	4018	4178	4338		1
15	4498	4658	4818	4978	5138	5298	5458	5618	5778	5938 7538	1100	
14	6098	6258	6418	6578	6738	6898	7058	7218	7378			
15	7698	7858		6178	8338	8498	8658	8818	8978	9138		
16	9298		9617	9777	9937	0097	0257	0417	0577	0737 2335	Į.	
17	4340896	1055	1 -	1376	1536	1696	1855 3453	2015 3613	2175	3932		
18	2495	2654	2814	2974	3134	3293 4891	5050	5210	5370	5529		
19	4092	1	4412	4571	4731			6807		7126		
2720	5689	5849	6008	6168	6328	6487	6647	1	6966 8562		1	
21	7285	7445	1	7764	7924	8083	8243 9838	9998	0157	0517		160
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24	2071		[			4462	4621	4781	4940	5099		4 64 3 80
25	3665	3824	1	4143	4505 5896	6055	6214	6374	6533	6692		6 P6
26	5259	5418 7011	5577 7170	3736 7329	7488	7648	7807	7966	8125	8284	l	7 112
27 28	6851 8444	8603	8762	8921	9080	9240	9399	9558	9717	9876	,	9 128
29	4360035	0194		0513	0672	0831	0990	1149	1308	1467		914
		1786	1945	2104	2263	2422	2581	2740	2899	3058	159	
2730	1626 3217	3376		3694	3953	4012	4171	4930	4489	4648		
31 32		4966		5284	5143	5602	5761	5920	6078	6237		
33	6396	6555	6714	6873	7032	7191	7350	7509	7667	7826	İ	
34	7985		8303	8462	8620	8779	8938	9097	9256	9415		
35	9573		9891	0050	0208	0367	0526	0685	0843	1009		
36	4371161	1320	1 .	1637	1796	1955	2113	2272	2431	2589	,	
37	2748	2907	3065	3224	3383	3541	3700	3859	4017	4176		
38	4334	4493	4652	4810	4969	5127	5286	5445	5003	5762		
39	5920	8079	6237	6396	6555	6713	6872	7030	7189	7347		
2740	7506	7664	7823	7981	8140	8298	8457	8615	8773	8932		
41	9090	9249	9407	9506	9724	9883	00±1	0199	0358	0516		3.00
42	4380675				1308	1466		1783	1941	2100		159
43	2258				2891		1208	3366	3525	3683		2 32
44	3841	3999	4158	4316	4474	4632	4791	4949	5107	5265		3 48
45	5421	8582	5740	5898	6056	6214	6379	6531	6689	6847		3, 80
46	7005	7163		7480	7638		7954	8112	8270	8428		6 95
47	8587	8745	4	9061	9219	9377	9535	9694	9851	0009 1589	1.50	7 111
48	4390167	0325	0483	0641	0794	0957 2537	1115 2695	1273 2853	1431 3011	\$169	138	9 143
49	1747	1905	2063	2221	2379						-	
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2950	4698220	8367	85:5	8602	8809	8950	9103	9251	9338	9545		
51	9692	9839	9986	<b>D134</b>	0281	0428	0575	0722	0869	1016		147
52	4701164	1311	1458	1605			2046		2340	2487		1 15
53	2634	2782	2929	3076				3664		3958	147	2 29 3 44
54	4105	<b>4252</b>	4399	4546	4693	4840	4987	5134	5281	5428	1.4	4 59
55	5575	5722	5869	6016	6163	6310	6457	6604	6750	6897		5 74
56	7044	_	7338	7485	7632	7779	7926	8073	8219	8366		6 88
57	8513	8660	8807	8954	9101	9248	9394	9541	9688	9835		7 103
58	9982	0129	0275	0422	0569	0716	0863	1009	1156	1303		9 132
59	4711450	1596	1743	1890	2037	2183	2330	2477	2624	2770		
2960	2917	3064	3211	3357	3504	3651	3797	3944	4091	4237		
61	4384	4531	4677	4824		5117	5264	5411	5557	5704		
62	5851	5997	6144	6290		6584	6730	6877	7023	7170		
63		7463	7610	1		8049	8196	8342	8489	8635		
64	8782	8929	9075	9222	9368	9515	9661	9808	9954	0101		
		ł	0540	0686	0833	0979	1126	1272	1419	1565		
65		1858	2004	1	2297	244+	1			3029		
66	3175	3322	3468	3615		3907	4054		l	_		
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74	3410	3556	3702	3848	3994	4140						4 58
75	4870	5016	5162	5308		5600		5891				5 73
76	6329	6175	6621	6767	6913	7059	7205	7351	7497	7642		6 88
77			8080	1	8372	8518	8664	8809	8955	9101		7 102
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79	4740705	0851	0997	1142	1288	1434	1580	1725	1871	2017		
2980	2163	2308	2454	2600		2891	1		3328			
81		3765	3911	4057	4202	4348	4494	4639	4785	4931		
82	5076	<b>5222</b>	5368			5805				6387		
83	6533	6678	6824	<b>696</b> 9	7115	7260	7406			7843		
84	7988	8134	8279	8425	8570	8716	8861	9007	9152	9298		
85	9443	9589	9734	9880	<u></u> ნ025	0171	0316	0462	0607	0753		
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2800	4471580	1735	1891	2046	2201	2356	2511	2666	2821	2976		
01	3131	3286	3441	3596	3751	3906	4061	4216	4371	4526		15
02	4681	4836	4991	5146	5301	5456	5611	5766	5921	6076	155	[ * ] *
03	6231	6386	6541	6696	6851	7006	7161	7315	7470	7625		2 3
01	7780	7935	3090	8245	8400	8554	8709	8864	9019	9174		3 4
05	9329	9483	9638	9793	9948	<b>D103</b>	0258	0412	0567	0722		5 2
06	4480877	1		1341		1650	1			2269		6 9
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29	6329	6483	6636	6790	6943	7097	7250	7404	7557	7711		
2830	7864	8018	8171	8325	8478	8632	8785	8938	9092	9245		l
31	9399	9552	9705	9859	0012	0166	0319	0472	0626	0779		•
32	4520932	1086	1239	1393	1546	1699	1853	2006	2159	2312		
33		2619			1	3232	3385	3539	3692	3845		
34	3998	+152	4305	4458	4611	4765	4918	5071	5224	5377		
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1842998	3141	3283	3426	3568	3710	3853	3995	4137	4280				
4422	4564	4707	4849	4991	5134	5276	5418	5561	5703	í	142		
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7268	7410	7553	7695	7837 9259	7979 9491	8121 9543	8264 9686	8406	8548		3 43		
8690	8833	8975	9117	1	1	1		9828	9970		4 57 5 71		
1850112	0254	0396	0539 19 <b>6</b> 0	0681	0823 2244	0965 2386	1107 2528	1249	1391		6 85		
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4375	4517	4659	4801	4943	5085	5227	5369	5511	5653		9 128		
5795	5937	6079	6221	6363	6505	6647	6788	6930	7072		7		
7214	7356	7498	7640	7782	7924	8066	8208	8350	8491				
8633	8775	8917	9059	9201	9343	9484		9768	9910				
1860052	0194	0336	0477	0619	0761	0903	1045	1186	1328				
1470	1613	1754	1895	2037	2179	2321	2462	2604	2746				
<b>28</b> 88	3029	3171	3313	3455	3596	3738	3880	4021	4163	,			
<b>45</b> 05	4446	4588	4730	4872	5013	5155	<b>5297</b>	5438	5580	Ì			
5722	5863	6005	6146	6288	6430	6571	6713	6855	6996				
7138	7279	7421	7563	770+	7846	7987	8129	8270	8412		1		
8554	8695	8837	8978	9120	9261	9403	9544	9686	9827	l			
9969	<b>Q110</b>	0252	0393	0535	Ĭ	(	0959	1101			1		
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	<b>8592</b>	8734	8875	9016	9157	9299		9581	9722		2 28 3 42 4 56 5 71 6 85		
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1881275	1416	1557	1698	1839	1981	2122		2404	2545		5 71		
2686	2827	2968	3109	3251	3392	3533	3674	3815	3956		6 85 7 99		
4097	4238	4379	4520	4661	4802	4943	5084	5225	5366	141	8 113		
5507	5648	5789	<i>5</i> 9 <b>30</b>	6071	6212	6353	6494	6635	6776	1.4.1	9 127		
6917	7058	7199	7340	7491	7622	7763	7904	8045	8185				
8326	8467	8608	8749	8890	9031	9172	1	9454	9594				
9735	9876	0017	0158	0299	0440	0580		0862	1003				
1891144	1285	1425	1566	1707	1848	1989	2129	2270	2411				
2552	2692	2833	2974	3115	3256	3396	3537	3678	3818				
3959	4100	4241	4381	4522	4663	4804	4')44	5085	5226				
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<b>3</b> 799	3940	4080	4220	4361	4501	4642		4922	5063		1 14		
<b>5203</b>	5343	5484	5624	5765	5905	6045	_	6326	6466		2 23		
6607	6747	6887	7027	7168	7308	7448	7589	7729	7869		3 42 4 56		
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9412	9552	9693	9833		0113	0253	0394	0534	0674		6 84 7 98		
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2900	4623980	4130	4279	4429	4579	4729	4878	5028	5178	5328		
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05	4631461	1611	1760	1910	2059	•	2358		i .	2807		5 75 6 90
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12	1914	_	2212	2361	2510	N	2808	•	3107			
13	3405			3852	4001	4150	1		4597	4746		
14	4895	5045	5194	5343	5492	5641	5790	5939	6088	6237	149	1
15	6386	6535	6684	6833	6981	7130	7279	7428	7577	7726	r D	1 1
16			8173		8471	8620	8769	8918	9067	9215		1 1
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34	4601	4749	4897	5045	5193	5341	5489	5637	5785	5933		ł
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36			7856				8448			8892		
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4484	4622	4760	4897	5035	5173	5311	<b>544</b> 9	5587	5724	1	138
5862	6000	6138	6275	6413	6551	6689	6826	6964	7102		11 14
7240	7377	7515	7653	7791	7928	1	8204	8341	8479		2 28 3 41
8617	8755	8892	9030	9168	9305	9443	9581	9718	9856		4 55
9994	<b>T131</b>	0269	0407	0544	0682	0819	0957	1095	1232		5 69
1991370	1508	1645	1783		2058			2471		}	6 83 7 97
2746	2883		3158	1	4			3846	1		8110
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5496	5634	5771	5909	6046	6184	6321	6459	0590	6733	•	
6871	7008	7146	7283	7421	7558	7695	7833	7970	8108	•	<b>,</b>
8245	8382	8520	8657	:	8932		9207	9344		Ì	
<b>96</b> 19	9756	9893	<b>O</b> O31		0305				0855		1 1
5000992	1129	1267	1404		1678	1		2090		1	] .[
<b>2365</b>	2502	2639	2777	t 1	3051	i '	3325	3463	3600		
3737	3874	4012	4149		4423		4698	4835			
5109	5246	5383	5521		5795		_	6206	6344		
6481	6618	6755	6892	•	7166				7715	1	
7852	<b>7989</b>	8126	8263	8400	8537	8674	8811	8948	9085	137	
9222	9359	9496	9634	9771	9908	0045	0182	0319	0456		
5010593	0730	0867	1004	1141	1278	1415	1552	1688	1825		
1962	2099	2236	2373	2510	2647	2784	2921	3058	3195		137
3332	3469	3606	3743		4016	_		4427	4564	1	1, 14
4701	4838	4974	5111		5385		_	_	5932		2 27
<b>6</b> 069	<b>6</b> 206	6343	6480	6617	6753	6890	7027	7164	7301	I	3 41
7437	7574	7711	7848	7984	8121	8258	8395	8531	8668		4 55 5 69
<b>880</b> <i>5</i>	8942	9078	9215	9352	9489	9625	9762	9899	<b>O</b> 035	ł	6 82
5020172	0309	0446	0582				1129	1266	1402	İ	7 96
1539	1676	1812	1949	1 _ 1	2222		2495	2632	2769		8 110
2905	3042	3178	3315	3452	3588	3725	3861	3998	4135		9 123
4271	4408	4544	4681	4817	4954	5091	5227	5364	5500		•
5637	<b>577</b> 3	5910	6046	6183	6319	6456	6592	6729	6865	i	Ì
7002	7138	7275	7411		7684		7957	1	8230		1
<b>836</b> 6	8503	8639	8776		9049	1	9321		9594		]
9731	9867	0003	0140	0276	0413	0549	0685	0822	0958		
5031094	1231	1367	1503	1640	1776	1912	2049	2185	2321		1
2458	2594	2730	2867		3139		3412	3548	3684		Î
3821	3957	4093	4229	1	4502		_	4911	5047	1	
5183	5319	<b>5456</b>	5592			6000		6273	6409	1	1
6545	6681	6818	6954	7090	7226	7362	7498	7635	7771	1	
7907	8043	8179	8315	8451	8587	8724	8860	8996	9132	l	•
9268	9404	9540	9676	9812	9948	<b>O</b> 085	0221	0357	0493		
5040629	0765	0901	1037	1173		1445	1581	1717	1853		136
1989	2125	2261	2397	2533		2805	2941	3077	3213	136	1 14 2 27
<b>334</b> 9	3485	3621	3757	3893	4029	4165	4301	4437	4573		3 41
4709	4845	4980	5116	5252	5388	5524	5660	5 <b>796</b>	5932	<b>,</b>	4 54
6068	6204		6475		6747	r	7019	7155		1	5 68
7426	7562			7970				8513		1	6 82 7 95
8785	8920				9464		9735		0007	V	8 109
5050142	0278	0414	0550	0685	0821	0957	1093	1228	1364		9 122
0	1	2	3	4	5	6	7	8	9	D	Pts.

(46)				ı	OG A1	RITH	MS		N.s	0000	L.	477
N.	0	1 1	9	3	4	5	6	7	8	9	D	Pro
3000	4771213	1357	1502	1647	1792	1936	2081	2220	2371	2515	-	_
01	2660	2805	2149	3094	3239	3383	9529	3673	3818	3962		143
02	4107	4252	4 396	45+1	4686	4830	4975	5119	5264	5109		li L
05	5553	5698	5845		6132	6276	0421		6710	6855		2 2 3 4
04	6999	7144	7288	7493	7578	7722	7867	8011	8156	8300		4 5
0.5	841-5	8589	8734	8878	9023	9167	9312	9456		9745		5 7. 6 8
06	9890	0034	0179	0323	0468	0612	0757	0901		1190		7.10
07	4781334	1479	1623	1768	1912	2056	2201		2490	2694		8 11
08	2778 4222	2923 4366	3067	3211	3556	3500	3645		3933	4078		PF13
			4511	4655	4799	4943			5376	5521		
3010	5665	5809	5954	6098	6242	6386	6531	6675		6763		
11	7108 8550	7252 8694	7396 8838	7540. 8982	7681	7829	7973 9415	8117 9559	8261 9703	9847		
15	9991	0135	0280		9126 0568	9271 0712	0856	1000	1144	1288		
14	4791432	1577	1721	1865	2009	2153	2297	2441	2585	2729	{	
15	2873	3017	3151	3305		3593	3737	3881	4025	1169		
16	4313	4457	4601	4745	3449 4989	5033	5177	5321	5465	5009	144	1
17	5753	5897	6041	6185	6329	6473	6617	6761	6905	7048	1	
18	7192	7336	7480	7624	7769	7912	8056		8343	8487		ŀ
19	8631	8775	8719	9003	9207	9350	9494	9638	9782	9926		
3020	4300089	0213	0357	0501	0645	0788	0232	1076	1220	1363		
21	1507	1651	1795	1939	2082	2226	2370	2513	2657	2801		144
22	2945	3088	3232	3376	3519	3663	3807	3950	4094	4238		1144
23	4381	4525	4669	4812	4956	5100	5213	5387	5531	5674		2 2
24	5818	5961	6105	0249	6392	6536	6679	6823	6967	7110		2 4
25	7254	7397	7541	7684	7828	7972	8115	8259	8402	8546	-	4 54 5 7:
26	868)	8833	8976	9120	9263	9407	9550	9694	9437	9981		6 9
27	4810124	0268	0411	0555	0678	0442	0985	1128	1272	1415		710
28 29	1559	1702		1989	2132		2119	2563	2706	2849		0 13
	2993	3136	5279	3423	3566	3710	3853	3996	4140	4283		-
3030	4426	4570	4713	4856	5000	5143	5286	5429	5573	571 <b>6</b>		
31 32	5859 7292	7435	6140 7578	6289 7722	6432	6576 8008	8151	6862 8295	7005 8438	7149 6581	١.	
33	8724	5967	9010	9154	7665 9297	9440	9583	9720	9869	0013		
34	4820156	0299	0442	0595	0728	0871	1015	1158	1301	1444		
35	1587	1730	1873	2016	2159	2302	2145	2589	2732	2875		
36	3018	5161	3301	3447	3590	3733	3976	"	1162	4305		
37	4448	4591	4734	4877	5020	5163			5592	5735		
38	5978	6021	6164	6307				6878	7021	7164	143	
39	7307	7450	7593	7736	7879	8021	8161	8307	8450	8593		
3040	8736	8879	9022	9164	9307	9450	9593	9736	9879	0021		
41	4530164	0307	0150	0598	0735	0878	1021		1307	1449		
42	1572	1735	1378	2020	2163	2300	2140			2877		143
43	3020		3305		35 10		3876		1161	1301		2 2
4-1-	4 \$ 10	1589	4732	1874	5017	I .	5302			5730		3 4
45	5873	6016	6158		6443	6586	672)		7014	7156		4 5
46	7219		7584		7869		\$154				1	5 7 6, 8
47	8725	8467	9010		9235	1				0007	1	710
48	18 (01 50)	0202.	0435	0577	0720 2144	0862 2266	1004 2429		1289) 2714	1432 2956		6 11
		1717	1853				_			_	1	9 11
N.	- 0	1	2		4	5	6	7	8	9	(I)	Pt

N. 3	0500 L.	484		OF	NU	MBER	s.			· <del></del>		(47	)
N.	0	1	2	3	4	5	6	7	8	19	D	Pro	
3050	+842998	3141	3283	3426	3568	3710	3853	3995	4137	4280			-
51	4422	4564	4707	4849	4991	5134	5276	5418	5561	5703		149	2
52	5845	5988	6130	6272	6414	6557	<b>6699</b>	6841	6984	7126		, ,	4
53	7268	7410	7553	7695	7837	7979	8121	8264	8406	8548	i .		8
54	8690	8833	8975	9117	9259	9401	9543	9686	9828	9970			7
55	4850112	0254	0396	0539	0681	0823	0965	1107	1249	1391		5 7	
56	1533	1676	1818	1960	2102	2244	2380	2528	2670	2812		6 8 7 9	5
57	2954	3096	3239	3381	3523	3665	3807	3949	4091	4233	142	8 11	•
58	4375	4517	4659	4801	4943	5085	5227	5369	5511	5653		912	-
59	<b>57</b> 95	5937	6079	6221	6363	6505	6647	6788	6930	7072			٠
3060	7214	7356	7498	7640	7782	7924	8066	8208	8350	8491			
61	8633	8775	8917	9059	9201	9343	9484	9626	9768	9910			Ì
62	4860052	0194	<b>033</b> 6	0477	0619	0761	0903	1045	1186	1328			I
63	1470	1613	1754	1895	2037	2179	2321	2462	2004	2746			I
64	2888	3029	3171	3313	3455	3596	3738	3880	4021	4163			I
65	<b>45</b> 05	4446	4588	4730	1872	5013	5155	5297	5438	5580			-
66	5722	5863	6005	6146	6288	6430	6571	6713	6855	6996			1
67	7138	7279	7421	7563	770+	7846	7987	8129	3270	8412			١
68	8554	8695	8837	8978	9120	9261		9544	9686	9827			
69	9969	<b>D110</b>	0252	0393	0535	0676	0818	0959	1101	1242		ł	
3070	4871384	1525	1667	1808	1950	2091	2232	2374	2515	2657		•	
71	2798	2940	3081	3222	3364	3505	3647	3788	3929	4071			İ
72	4212	4353	4495	4636	4778	4919	5060	5202	5343	5484		١,,,	
73	5626	5767	5908	6050	0191	6332	7	0615		6897		141	4
74	7039	7180	7321	7462	760+	7745	7886	8027	8169	8310			3   3
75	8451	<b>8592</b>	8734	8875	9016	9157	<b>92</b> 99	9440	9581	9722			2
76	9863	0001	0146	0287	0428	0569	0710	0852	0993	1134		4 5 5 7	
77	4881275	1416	1557	1698	1839	1981		2263	2404	2545		6 8	•
78	2686	2827	2968	3109	3251	3392	3533		3815	<b>3</b> 956		7 9	
79	4097	4238	1379	4520	4661	4802	4943	5084	5225	5366		8 11 9 12	
3080	5507	5048	5789	5930	6071	6212	6353	6494	6635	6776		7/12	-!
81	6917	7058	7199		7481	7622	7763	_	8045	8185			j
82		8467	8608		8890	9031	9172		9454				I
83	9735		<b>Ö</b> 017	0158	0299	0140		0721	0862	1003			
8.4	4891144	1285	1425	1500	1707	1848	1989	2129	2270	2411			ł
85		2692	2833	2974	3115	3256	3396	•	3678	3818			
86		!	1241	4381	4522	4663	4804		5085	5226			1
87		5507	5648	5788	5929	6070	6210	_		6632	1		┨
88	_	6914		1	7335	7476	1	7757		8038			
89		8320	8460	8001	8741	8882	9023		9304	9444			-
3090						0287	1			1	}		
91	4900990		1271	1412	1552	1693	i i	1973	2114	2251			
92	2395	_	2676	2816	2957	3097		3378	3518	3659		1 10	_ •
93	<b>3</b> 799	3940	·H)80	1220	4301	4501	I I	4782	4922	5063		L _ I	او
94	ł		5184	562+	5705	5905	6015	l	6326	6466		1 1	2
95	6607	1	6887	7027	7168	7308	7448	_	7729	7869			6 :
96	_	8150	8290	8 130	8571	8711	8851		9132	9272	•		0 i 4
97	9412		9693	9833	9973	0113	0253	0394	0534	0674		5 8 7 9	
98			1094	1235	1375	1515	1655	_	1935	2076		9,11	2
99	2210	2356	2496	2636	2776	2916	3057	3197	3337	3477	<b>!</b>	9112	_
N.	0 .	1	2	3	4	5	6	7	8	9	D	Pts	•

(48)				L	DGAR	ITHM	8		N. 5	1000	L	49
N.	0	ĭ	2	3	4	5	6	7	8	9	D	Pro
01 02 03 04	4913617 5018 6418 7818 9217	\$757 5158 6558 7958 9357	3897 5298 6698 8098 9497	4037 5438 6338 9637	\$177 5578 6378 9777	4317 5718 7118 8517 9917	4457 5858 7258 8657 0057	4597 5998 7398 8797 0196	4738 6138 7538 8937 0336	4878 6278 7678 9077 0476	140	2 2 3 4
05 06 07 08 09	4920616 2015 3413 4810 6207	0756 2154 3552 4950 6347	0896 2294 3692 5090 6487	1036 2434 3832 5229 6626	1175 2574 3972 5369 6766	1315 2714 4111 5509 6906	1455 2855 4251 5648 7045	1595 2993 4391 5788 7185	1735 3133 4531 5928 7325	1875 3273 4670 6068 7464		5 7 6 8 7 9 12 12 12 12 12 12 12 12 12 12 12 12 12
\$110 11 12 13 14	7604 9000 4930396 1791 3186	7744 9140 0535 1931 3326	7883 9279 0675 2070 3465	8023 9419 0815 2210 3604	8162 9558 0954 2349 3744	6302 9698 1094 2489 3883	8442 9838 1233 2628 4023	8581 9977 1373 2768 4162	8721 0117 1512 2907 4302	8861 0256 1652 3047 4441		
15 16 17 18 19	4581 5974 7368 8761 4940154	4720 6114 7507 8900 0293	4859 6255 7647 9040 0432	4999 6393 7786 9179 0571	5138 6532 7925 9318 0711	5278 6671 8065 9457 0850	5417 6811 8204 9597 0989	5556 6950 8343 9736 1128	5696 7089 8483 9875 1268	5635 7229 8622 0015 1407		>
3120 21 22 23 24	1546 2938 4329 5720 7110	1685 3077 4468 5859 7249	1824 3216 4607 5998 7388	1964 3355 4746 6137 7527	2103 3494 4885 6276 7666	2242 3693 5024 6415 7805	2381 3773 5164 6354 7944	2520 3912 5503 6693 8083	2659 4051 5442 6832 8222	2799 4190 5581 6971 8361	139	1.39 i: 1- 2 2: 3 4:
25 26 27 28 29	8500 9890 4951279 2667 4056	8639 0029 1416 14194	8778 0168 1557 2945 4333	8917 0307 1695 3084 4472	9056 0445 1834 3223 4611	9195 0584 1973 5362 4750	9334 0723 2112 3500 4888	9473 0862 2251 3639 5027	1001 2390 3778	9751 1140 2529 3917 5305		4 50 5 70 6 83 7 93 8 11 9 12
\$1\$0 31 32 33 34	9604	5582 6969 8356 9743 1128	5721 7108 6495 9881 1267	5860 7247 8634 0020 1406	5998 7385 8772 0159 1544	6137 7524 8911 0297 1683	6276 7663 9049 04 <b>3</b> 6 1821	6415 7802 9188 0574 1960	6553 7940 9327 0713 2098	6 <b>6</b> 92 8079 94 <b>6</b> 5 0851 22 <b>3</b> 7		
35 36 37 11 39	2375 3761 5145 6529 7913	2514 3899 5284 6668 8052	2653 4038 5422 6806 8190	2791 4176 5560 6945 8328	2930 4314 5699 7083 8467	3068 4453 5837 7221 8605	3207 4591 5976 7360 8743	3345 4730 6114 7498 8882		3622 5007 6391 7775 9158		
\$140 #11 42 43 44	9296 4970679 2062 3444 4825	9435 0818 2200 3582 4964	9573 0956 2338 3720 5102	9711 1094 2476 3858 5240	9850 1232 2615 3996 5378	9988 1371 2753 4135 5516	0126 1509 2891 4273 5654	0265 1647 3029 4411 5792	\$1 <i>6</i> 7 4549	1924 3306 4687		1 38 1 14 2 26 3 41
45 46 47 48 49	6206 7587 8967 4980347 1727	6345 7725 9105 0485 1865	6483 7863 9243 0623 2002	6621 6001 9381 0761 2140	6759 8139 9519 0899 2278	6897 8277 9657 1037 2416	7035 8415 9795 1175 2554	7173 8553 9953 1313 2692	7311	7449 8829 0209 1589	138	Al er
N.	0	1	2	3	4	5	6	7	8	9	D	Pu.

13500 L	. 525		0	F NU	MBE	RS.			_		(53)
0	1	2	3	4	5	6	7	8	9	D	Pro.
5250448	0578	0707	0837	0967	1096	1226	1355	1485	1015		
1744	1874				2392	2522	2651	2781	2911		130
3040	3170	_		_	I .	3817	3947		4206		1 13
4336	4465	4595	4724	_		5113					2 26 3 39
5631	57 <b>6</b> 0	5890	6019	6148	1.	6407			6796		4 52
6925		7184			7572	,	7831				5 65 6 78
8220 9513	33 <b>4</b> 9 9643							9255			7 91
5260807	0936	1066		1324	0160	1583					8 104
2100	2229	2359	2488	2617		2876	3005				9 117
3393	3522				4039				4556		
4685	4814	4944			5331	_					
5977	6106					6752	_	•			
7269	7398			7785		8043					
8560	8689	8818	8947	9076	1	9334	9463		9722		
9851	9980	δ109		0367		0625	0754		1012		
5271141	1270	1399	1528		_	1915	2044	2173			
2431	<b>256</b> 0	2689	2818	9	3076		ľ	3463		129	
3721	3850	3979	4108	4237	4366	4494	4623	4752	4881		
5010	<b>513</b> 9	<i>52</i> 68	5397	<i>552</i> <b>6</b>	5655	5783	5912	6041	6170		
6299	6428	6557	6686	6814	6943	7072	7201	7330	7459		
7588	7716	7845		8103		8360	8489	8618	8747		100
8876	9004	9133	9262	9391	9520	9648	9777	9906	<b>TO35</b>		129 1 13
<b>528</b> 0163	4	0421			0807				1		2 26
1451	1579	1708	1837	1966	2094	2223	2352	2480	2609		8 39
<b>2</b> 738	2866	2995	3124	3252	•		3638		-		4 52 5 65
4024	_			4539		4796		_			6 77
5311		5568		5825		6082			6468		7 90
<b>659</b> 6	1	6854	•	7111	1	7368					8 103 9 116
7882	1	8139		1	8525				9039		3-10
9167					9809						`
5290452	•										
1736 3020	_	3277	1		2378	<b>3790</b>					
4304			_	3533 4817	3	5074	_	_	5458		
	•	ŧ .							_		
5587 <b>687</b> 0	1		5972		7511	7630					
		1	1 1	_	8793				9306		
9434	2		1 1	-	0075	1					
5300716	0844		- 1		1356						
1997	2125	2253	1		2637						
3278	3406				<b>3</b> 918				4430		
<b>4558</b>		4814				_	5455		_	128	128
5839	5967	1 .		6351					6990		1 13
7118	7246	7374	7502	7630	7758	7886	8014	8142	8270		2 26 3 38
8398	8526	8654	8782	8909	9037	9165	9293	9421	9549		4 51
9677	9805		<b>0</b> 060			0444		0700			5 64
5310955	1083	1211	1339	1467	1595	1722	1850	1978	2106		6 77 7 90
2234	2362	2489		1	2873		3128				8 102
3512	<b>3</b> 639	3767	3895	4023	4150	4278	4406	4534	4661		9115
0	1	2	3	4	5	6	7	8	9	D	Pts.

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(50)				L	OGAI	RITH	MS		N.	3200	0 L.	505
N.	0	1	2	3	4	5	6	7	8	9	$\overline{\mathbf{D}}$	Prc.
3200	5051500	1635	1771	1907	2043	2178	2314	2450	2585	2721		
0!	2857		3128		3399	3535	3671	3806	3942	4078		136
02	4213			4620	4756	4891	5027	5163	<b>52</b> 98	5434	ł l	1 14
03	5569					6247		6518	6654	6790		2 27 3 41
04	6925	7061	7196	7332	7467	7603	7738	7874	8009	8145		4 54
05	8780	1			8822	1	ľ	9229	9364	9500		5 68
(16	0435	9771	4906	0042	0177	0312		0583		0854		6 82 7 95
07	5060990	1125	1260	1396	1531	1667	1802	1937	•	2208		7 95 8 109
08	2344	2179	2614	2750	2885	3020	3156	3291	3426	3562		9 122
09	3697		3968			4374		1044	4780	4915		
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<b>32</b> 10	6403	6538	8871	6800	69 +4	7079		7350	•	7620		<b>)</b>
12	7755	7891	8026	8161	8296	8431	8567	8702	8837	8972	ł	İ
13	9107	9242	9378	9513	9648	9783	•	<b>O</b> 053		0324		•
14		0594	0729	0864	0999	1134	1269	1405	1540	1675		
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15	9160	9905	2080	3566	3701	3836	3971	4106		4376	135	Ĭ
16 17	A511	1846	14701	14916	5051	5186	5321	5456	5590	5725		j
13	5860	5005	6130	6265	6400	6535	6670	6805	6940	7075		1
19	7210	7345	7480	7614	7749	7884	8019	3154	8289	8424		
'	0550	0804	2000	8068	9098	0283	0368	9503	9638	9772		}
3220	0007	7040	8828	0903	04.17	0581	0716	0851	0986	1121		
21	I	1900	1505	1660	1794	1929	2064	2199	2334	2468		135
22 23	9603	2738	0972	3007	3142	3277	3411	3546	3681	3816		1 14 2 27
23 24	3050	4085	4220	4354	4.189	4624	4758	4893	•	5163		3 41
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25	5297	343Z	5507	7047	7180	5970	7451	7586	7720	7855		5 68 6 81
26	7000	0178	0913	8303	8508	8663	8707	8932	9066	9201	ļ	6 81 7 95
27	7990 0445	0124	0604	9739	9873	0008	0142	0277	0411	0546		8 108
28 29	5090680	0815	0040	1084	1218	1353	1487	1622	1756	1891		9 122
	0030000	0010	0949	9400	2589	2697	2840	2066	3101	1		
3230	2025	2100	2294	2779	3007	4049	4176	4310	4415	4579		ſ
31		3304	4000	5117	5251	5385	5520	5654	5788	5923		
32		#040 #101	6906	6460	6594	6729	6863	6997	7132	7266		
33	6057	7594	7660	7803	7937	8072	8206	5340	8474	_		
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38 39	4100 4100	4944	4979	1512	4646	4780	4914	5048	5182	5316	11	
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3300	5185139	5271	5403	5534	5666	5797	5929	6061	6192	6324		
01	6455		6718	6850	6981	7113	7245	7376	1	7639	H	132
02		7902	8034		8297	8428	8560	8691	8823	8954		1, 13
03	9086			9480	9612	9743	9875	0006	0137	0269		2 26 3 40
04	5190400	_		0795	0926	1058	1189	1320	1452	1583	i i	3 40 4 53
05	1715	1846	1977	2109	2240	2372	2503	2634	2766	2897		5 66
06		3160	3291	3423	3554			3948		4211		6 79
07		4473	4605		4867	4999				5524		7 92 8 106
08		5786	5918		6180			6574		6836		9119
09	6968		7230	7361	7493	7624	7755	7886	8018	8149	I	
3310	8280		8549	8674	8805	8936	9067	9198	9329	9461		
11		9723		)	0116		B .		0641	0772		
	5200903	•	1166	_	1428		_	1		2083		•
13		2345	2477	2608	2739		_	3132		3394		
14		3656	3787	3918	4049	4180		4442	4573	4704	131	
15	4835		5097		5359		5621	5759	5883	6014	131	
16		6276		6538	6669				7193	7324	1	
17	_	7586	7717		7978	8109	8240	8371		8633		
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1400	5314789	4917	5045	5172	5300	5428	5550	5883	5811	5939		
01	6066	6194	6322	6449	6577	6705	6832	0960	7088	7215		128
02	7313	7471	7598	7726	7854	7981	8109	8237	8361	8492		1) 13
03	8619	8747	8875	9002	9130	9258	9385	9513	9640	9768		2 26
04	2020	0023	0151	0278	2406	0533	0661	0789	0819	1044		3 38
03	5321171	1299	1426	1554	1681	1809	1936	2064	2191	2319		5 64
06	2446	2574	2701	282)	(8) 50	3084	3211	3330	3466	3594		6 77
07	3721	3849	3976	4104	423 L	4359	4486	4614	4741	4868		7 90 8 LOS
08	4996	5123	5251	5378	5506	5093	5760	5888	6015	6149		9 t i 5
09	6270	6397	6525	6652	6780	6907	7034	7162	7289	7416		-
3410	7544	7671	7799	7926	8055	8181	8308	8435	8563	8690		
11	8817	8945	9078	9199	03890	9454	9581	9708	9836	RESE		
12	5330090	0218	0345	0472	0599	0727	0854	0981	1108	1236		
13	1363	1490	1617	1745	1872	1999	2126	<b>225</b> \$	2381	2508		
14	2635	2762	2890	3017	3144	3271	3398	3526	3653	3780		ļ
15	3907	4034	4161	4289	4416	4543	4670	4797	4924	5051		
16	5179	5300	5433	5560	5687	5814	5941	6068	6196	6323	1	
17	6450	6577	6704	6851	6958	7085	7212	7339	7466	7594		1
18	7721	7848	7975	8102	8229	8356	8483	8610	8737	MIXE		
19	8991	9118	9245	9372	9499	9626	9753	9880	0007	0134	l	
5420	5340261	0389	0515	0642	0769	0896	1023	1150	1277	1404	127	
21	1591	1658	1785	1912	2039	2165	2292	2419	2546	1007.0		
22	2800	2927	3054	3161	3308	3435	3561	3688	3815	HOME		127
25	4069	4196	4323	4450	4576	4703	4830	4957	5084	5211		2 2
24	5338	5461	5591	5718	5845	5972	6098	0225	6352	6479		8 88
25	6606	6733	6859	5986	7113	7240	7366	7493	7620	2747		4 51
26	7874	8000	8127	8254	8381	8507	8634	8761	8888	9014		5 64 6 76
27	9141	9268	9394	9521	9648	9775	9901	0028	0135	0281		7 89
28	5350408	0535	0662	0788	0915	1042	1168	1295	1422	1548		8 102
29	1675	1802	1928	2055	2181	2308	2435	2561	2088	2815		91114
3430	2941	3068	3194	5321	3448	3574	3701	3827	3954	4031		
31	4207	4334	<b>#460</b>	4587	4713	4840	4967	5093	5220	5346		
52	5473	5599	5726	5852	5979	6105	6232	6359	6485	6612		
33	6738	6865	6991	7118	7244	7371	7497	7023	7750	7876		
34	8003	8129	8256	8382	8509	8635	8762	8888	9015	9141		
35	9267	9394	9520	9647	9773	9900	0026	0152	0279	0405		
36	5360552	0658	0781	0911	1037	1163	1290	1416	1543	1669		
37	1795		2048	2174	2301	2427	2553	2680		2932		
38	3059	3185	3311	3438	3564	5690	3817	3943	4069	4195		
39	4322	4148	4574	4701	4827	4953	5079	5206	5332	5458		
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98	9669		9904	0021	0139	0256			0008	0726		7 83 8 94
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-	0101		6967		7203	7320						
86		567 I	5789	5907	6025	6142						
85	4375	1493	4611	4728	4846	4964	5082	5200	5318	3435		
84	3196	3314		3550	3668	3786		4021	4139	4257		
83	2017	2135			2489	2007		2843		3078		]
82						1428				1899		
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76	4030	5054	6353	/-	5400 6590		5015 6826	5763 6044				
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64		9673	9792	9910	0029	0147	0266	0384	0503	0621		
03	1		8600		6843		9081					1
63			7421		7658		7895					
61	1 1111	6116			6472	6590	6709	6828	6946	7065		
3660	4811	4930	5048	5167	5285	5404	5523	5641	5760	5879		
39	3624	3743	3861	3980	40.39	4218	4936	4455	4574	4692		
56	2+37	2550		2793	2912	3031	3149	<b>32</b> 68		3505		9 10
- 87	1250	1368	1487		1725		1962			-		7 83 8 9
36			0299			0056						6 7
35	8874	8993	9111	9230	9349	946R	9587	9705	9824	1943		5 6
54	7695	7804	7923	5042	8161	8280	8398	8517	8636	9755		3 30
53	6497	6616	6734	6853	0972	7091		7529		7507		2 24
39		5427	5546				6021		· .			1 13
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(56)				LC	GAR	ITHM	18		<u>N.</u> :	3500	0 L.	54
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02	3161		3409	3533	3657	3781	<b>3</b> 905	4029	4153	4277		1 1
03	4401		4649	4773		5021	5145	5269	5393	5517	124	2 2
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29	6517	6640	6763	6886	7009	7132	7255	7378	7501	7624		
3530	7747	7870	7993	8116	8239	8362	8485	8608	8731	8854	123	
31	8077	9100	9223	9346	9469	9592	9715	9838	9961	0084	123	
32		0990	0453	0576	0699	0822	0945	1068	1191	1313		}
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69	54115	5587	5709	5831	5952	0074	0196	0317	6133	0501		Ì
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1 13		6522	6402	5281	6160	6010	5919	5799	5678	5559	5437	02
9 24 3 36		7727	7607	7486	7366	7245	7125	7004	6484	6763	6643	03
4 48		8932	8012	8691	8571	8450	8330	8209	BO89	7968	7848	04
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6 73 7 85		1341		1100	0980	0859	0739	0619	0198	0378	5570257	-06
8 97		2545		2301	2184	2063	1943	1625	1702	1582		07
3 100		3748		3508	3387	3267	3147	3026	2906	2786	2665	08
	1	4952	4831	4711	4591	4470	4350	4250	4109	3989	3869	09
		6155	6034	5914	5794	5673	5553	5433	5313	5192	5072	3010
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		8559		8519		8079	7958	7838	7718		7477	12
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			0843	0723	0602	0492	0362	0242	0122	0002	9881	14
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		1339	1219	1100	0950	0960	0741	0621	0502		5000202	3030
			2415	2295	2176	2056	1937	1817	1698	1578	1458	32
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		4925	4805	4686	4566	4447	4327	4208	4058	3969	3849	34
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		7314		7075		6816	6716	6597	6478	8358	6259	30
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		0895	0775	0656	0537	0417	0298	0179	0059	9940	9821	39
		2088	1968	1849	1730	1610	1491	1372	1252	1133	5611014	3640
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1 18		- 11	5545	5426		5188	5007	4949	4830		4592	43
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4 48		8048	7/128	7809	7690	7571	7452	7355	7214	7094	6975	45
5 60 5 50		9239		9000	8831		8643			8286	8167	46
5 60 6 72 7 84		0429	0310	0191	0072	9953	1580	9715		9477		47
8 96	- [	1620	1501	1582	1203	1144	1024	0905		0667	5620548	48
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29	2820	2931	3041	3152	<b>326</b> 2	3373	3483	35:14	3704	3815	İ	•
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1336	1446	1556			'					1	<b>j</b>
	2541	2651	2761	2870		- 1	<b>5199</b>	3308 4403	3418 4513		
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	2388	~ ~ ~ ~	2606	2716	2825	2934	3044				`
				3808	1			4245			
3371 4464	3481	4682			1			5338			
555R	5865	5774	5884	5993	6102						
6648	6757	6866	6975	7084	7194	7303	7412	7521	7630		
7739	7849	7958	8067	8176	8285	8394	8503	8612	8722		
1		1 1			9376	9485	9594	9704	9813		
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2103	2212	2321	2430	2539	2648	2757	2866	2975	3084	109	
	3302			3629		3847					
			4610	4719	4828	4937	5046	5155	5264		
		5591	<b>5700</b>	5809	5918	6027	6136	6244	6353		
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06	4688		4916	5030		5258	5372	5487	5601	5715		5 58
07	5829	5943	6057	6171	6285	1	6513	6627	6741	6855		6 69
08	6969	7083	7197	7312	1 . 1	7540	7654	7768	7882	7996		7 81 8 92
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11	5810389		0617	0731		0959	1073	1187	1301	1415		
12	1529		1757	1871	1985		2212	2326	2440	2554		
13	2668	1	2896	3010	3124	3238	3351	3465	3579	3693		
14	3807	3921	4035	4148	4262	11	4490		4718	4832		
15	4945	5050	5173	5287	5401	5515	5628	5742	5856	5970		
16	6084	_		6425	6539	6653	6766	1 .	6994	7108		
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18		1	8587		1	8928	)					
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23	4043		4270		1			4838	4952			
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27	8585		8812			9152			9492	_ 1		
28	9719	1	9946	_	_	0287		0513	0627			
29	5830854	l .	1081		1307	1421	1534		1761	1874		
<b>3</b> 830	1988	2101	2215	2328	2441	2555	2668	2781	2895	3008		
31	3122		3348		_				4028			
32	4255		4482			4822		5048	5162			
33	5388		5615	5728		5955		6181	6295	6408		
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<b>3</b> 5	7654	7767	7880	7993	8107	8220	8333	8446	8560	8673		
36	8786	ľ	9012	9126		9352	•		9692	9805		
37	9918	_	0144			0484	1		0823	1		
38	5841050	1163	1276	1389	1	1615	Si i	1842	1955	2068		
<b>3</b> 9	2181	2294	2407	2520	2634	2747	2860	2973	3086	3199		
<b>3</b> 840	3312	3425	3538	3652	3765	3878	3991	4104	4217	4330		
41	4443		4669	4782		5008		5234	5348	5461		
42	5574		5800		6026	(8	6252		6478	6591		114
43	6704	6817			7156	1	7382		7608	7721	113	_
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5622       5730       5837       5944       6051       6158       6266       6373       6480       6587         6694       6802       6909       7016       7123       7230       7337       7445       7552       7659         7766       7873       7980       8087       8195       8302       8409       8516       8623       8730         8837       8945       9052       9159       9266       9373       9480       9587       9694       9801         9909       0016       0123       0230       0337       0444       0551       0658       0765       0872         6080979       1087       1194       1301       1408       1515       1622       1729       1836       1943         2050       2157       2264       2371       2478       2585       2692       2799       2906       3013         3120       3227       3334       3441       3548       3656       3763       3870       3977       4084         4191       4298       4404       4511       4618       4725       4832       4939       5046       5153         5260       5367       5	1 1 1 2 2 1 3 3 2 4 4 3 5 5 4 6 6 4 7 7 5 8 8 6
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2050     2157     2264     2371     2478     2585     2692     2799     2906     3013       3120     3227     3334     3441     3548     3656     3763     3870     3977     4084       4191     4298     4404     4511     4618     4725     4832     4939     5046     5153       5260     5367     5474     5581     5688     5795     5902     6009     6116     6223       6330     6137     6544     6651     6758     6865     6972     7078     7185     7292	7 75 8 86
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8468 8575 8682 8789 8896 9003 9110 9216 9323 9430	
9537   9644   9751   9858   9964   0071   0178   0285   0392   0499	i
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3120417   0524   0630   0736   0842   0948   1054   1160   1266   1372	1 11 2 21
1478   1584   1691   1797   1903   2009   2115   2221   2327   2433	332
2539 2645 2751 2857 2963 3069 3175 3281 3387 3493	4 42
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03	3996	4097	4208	4319	4491	4542	4653	4764	4876	1987		2 22
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16	8427	8538	8649	8760	8870	8981	9092	9203	9314	9425		}
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19	1753	1863	1974	2085	2196	2307	2417	2528	2639	2750		}
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46	1571	1681	1791	1901	2011	2121	2231	2341	2451	2561	110	5 50
47	2671	2781	2891	3001	3111	3221	3 <b>3</b> 31	3441	3551	3661		6 6
43	3771	3881	3991	4101	4211	4321	4431	4511	4651	4761		8 8
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49	4871	<b>T301</b>	2031			10 12.	0001	10041	0.01	12001	1	9110

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	2573	2678	2783	2887	2992	3096	3201	3306	3410			1/10
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	4665	4769	4874	4979	5083	5188	5292	5397	5501	5606		442
		5815	5919	6024	6128	6233	6337	6442	949	6651		552
	6755	6860	6964	7069	7173	7278	7382	7487	7591	7696		662 773
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119	1977	2082	2186		2395	1455 2499	2603	1664 2708	1768. 2812	1873 2916		
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	4064	4168	4273	4377	4481	4586	4690	4794	4899			
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20	0319	Q423	0527	0631	0736	0840	0944	1048	1152	1256		
	1561	1465	1569	1673	1777	1881	1985	2090	2194	2298		
	2402		2610	27.14		2922	3027	3131	3235	3339		
	3443		3651		3859	3963	4066	4172	4276			
	4484	4588	4692	4796	4900	5004	5108	5212	5316			
	5524	5628	5733	5837	5941	6045	6149	6253	6357	6461	104	
	6565	6669	6773	6877	1869	7085	7189	7293	7397	7501	104	
	7605	7709!	7813	7917	8021	8125	8229	8333	8437			
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	4879	4982	5086	5100	5294	5398	5502	5605	5709	5813	'	
	5917	6021	6124	6228	6332	6436	6540	6643	6747	6851		
	6955	7058	7162	7266	7370	7473	7577	7681	7785	YMXX		
	7092	8096	8200	8303	8407	8511	8615	8718	BXQQ	8926		
	9030	9133	9237	9341	9444		9652	9756		00003	i	
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	2140	2244	2348	2451	2555	2658	2762	2866	2969	3073		
	9177	3230				3695	3798	3902		4100		
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47	0280823	0925	1027	1129	1232	1334	1436	1538	1641	1743		661 771
44	1845	1947	2050		2254	2356		2561	2663	2765		8987
46	2867	9970	3072	3174	3276	3378	3481	3583	3685	3787		5(6.1
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18		2927	_	3128		3329			3631	3751		
19	3832			4134		4335		1536		医多肠毒		
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20	5843	5449	5044	0144	6245	6345		100 Marie		6747		
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31	5882		6082			6383	_	6584	_	6784	•	ı
32		6985	7085	7155				7580		7787	•	
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49					4294	4393				4793		
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51	1527	1632	_	1841	1946	2050	2155	2260		2469		104
52		2678		2887	1	3096		3306	3410	3515		1/10
53		3724	_	3933		11	4247	4351		4500		221 331
54		4769	4874	4979	5083	1)	5292	5397	5501	5606		442
55		5815			6128		<b>U337</b>		6546	6651		5 52
56		6860				7278			7591	7696		662 773
57 58		7905		T 1	8218		8427		1	8740		883
59	<b>8845</b> <b>988</b> 9	8949 9994	_	0202	9263	9367 0411		9576		9785	1	994
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62	1977 <b>3</b> 021	2082 3125			2395		T .	2708	_			
63		4168	• •	3334 4377	1		•	3751 4794	3855	39 <b>6</b> 0		
64	5107	5212				5629	<b> </b>	5837	59 <b>42</b>	5003 6046		
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67	8235		•			8756		7922	-	8131		
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81						3321				1		
82						4359	1		1	4775		
83	4879	4982	5086	5190	5294	5398	5502	5605	5709	5813		
84	5917	6021	6124	6228	6332	6436	6540	6643	6747	6851		
85	6955	7058	7162	7266	7370	7473	7577	7681	7785	7888		
86	7992		1		ı	8511				-		
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91	3177	1			_	3695					i l	
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4400	6434527	4625	4724	MANAGE.	4922	5020	5119	5218	5316	5415	***
- 01	5514	5612	5711	5810	5908	6007	6106	ნ204	6303	6402	ш
02	6500	6599	6698		6895	6994		7191		7388	ш
03	7487	7585	7684	7783	7881	7980	_	8177		8374	
04	8473	8572	8670	8769	8868	No.	9065	9163	9262	9361	
0.5	9459	9558	9656	9755	9853	9952		0149	0248		ш
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12	5371	6453		6650	_	6847				7241	Ш
13		7438			7733	7831	7930	8028		8225	Ш
14	8323		8520	8618	8717	8815		9012	_	9209	
15	9307	9405	9504			9799		9996		0192	
16	6450291	0389			0684			0979	1077		
17	127 1	1372	1471	1569	1667	1766		1962	2061	2159	Ш
13	2257	2355	2454	2552	2650	2749		2945	3013	3112	Ш
19	3210	3338	3437	3535	3633	3731	3830	3928	4026	4124	Ш
4420	4223	4321	4419	4517	4616	4714	4812	4910	5009	5107	
21	5205	5303	5402	5500	9790	5696	5795	5893	5991	6089	
22	6187	6286	6384	6482	6580	6678	6777	6875	6973	7071	
23	7169	7268	7366		_	7660		7857	7955	8053	1
24	8151	8249	8348	8446	6544	8642	8740	8838	8936	9035	
25	9133	9231	9329	9427	9525	9623	9722	9820	9918	0016	П
26	6460114			0408			0703	_		0997	R
27	1095	1193	1231	1390	1488	1586		1782		1978	ш
28	2076	2174	_		2468		2665	2763	2861	2)59	ш
29	3057	3155		3351	3449	3547		3743	3841	3939	t
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31	5018		5214 6193		6389	5508		_			Ш
33	5998	7075	7173	7271	7369	7467		6683 7663	7761	6879 7859	П
34	7937	8055		8251	8349	8447	6545			8838	П
35		_				9426		9622	_		
36		0013	1			0 105		_	_	0798	
37	6470894	_	,			.1331		1579	1677	1775	
38	1873.	1971	1	2167		2302				2754	ш
39	2851	2949	3047	3145	3243	3341	3438	3536	3634	3732	
1140	3830	3925	1025	1123	4221	1319	4417	4514	4612	4710	
41						5297	5394	5492	5590		
42						6274			6568	0065	П
43						7252				7043	Ш
44						8229		8 125	8522	8620	
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49						0183				0574	
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N. 4	2500 I	628	3	01	NU	MBE	RS.		· · · · · · · · · · · · · · · · · · ·		1	(71)
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4250	6283889	3991	1094	1196	4298	4400	4502	4605	4707	4809		
51	4911	5013	5115	5218	5320	5422	5524	5626	5728	5830		102
52	5933	6035	6137	6239	6341	6443	6545	6647	6750	6852		1/10
53	6954	7056	7158	7260	7362	7464	7566	7669	7771	7873		2 20 3 31
54	7975	8077	8179	8281	8583	8485	8 <b>587</b>	8689	8792	8894		441
55	8996	9098	9200	9302	9404	9506	9608	9710	9812	9914		5 51
56		0118		0322	0424	0526	0628			0934		661
57	1037	1139	1241		1	1547		1751	1853	1955	102	7 7 1 8 82
58	2057	2159	2261	2363	2465	2567	2668	2770	2872	2974		992
59	3076	3178	3280	3382	3484	3586	3688	3790	3892	3994		-
4260	4096	4198	4300	4402	4504	4606	4708	4810	4911	5013		
61		5217	5319	5421	5523	5625	5727	5829	5931	6033		1
62	6134	6236	6338	6440	6542	6644	6746	6848	6950	7051		i
63	7153	7255	7357		7561		7765	78 <b>66</b>	7968	8070		
64	8172	8274	8376	8478	8579	8681	8783	8885	8987	9089		(
65	9190	9292	9394	9496	9598	9699	9801	9903	<b>0</b> 005	0107		
66		0310		0514			0819	0921	1023	1125		
67	1226	1328		1532		1735	1837	1939	2041	2142		i
68								2956		3160		
69	3262	3363	3465	3567	3668	3770	3872	3974	4075	4177		
1270	4279	4380	4482	4584	4686	4787	4889	4991	5092	5194		
71		5397				5804		-	6109	6211		
72						6821			7126	7227		
73	7329	7431	7532	7634	7735	7837	7939	8040	8142	8244		
74	8345	8447	8548	8650	8752	8853	8955	9056	9158	9260		
75	9361	9463	9564	9666	9768	9869	9971	<b>0</b> 072	0174	0275		
		_						1088		129:		
77								2103		2306		
78	2408	2509	2611	2712	2814	2915	3017	3118	3220	3321		
79	3423	3524	3626	3727	3829	3930	4032	4133	4235	4336		
4280	4438	4539	4641	4742	4844	4945	5046	5148	5249	5351		
81								6162	6264	6365		
82	6167	6568	6669	6771	6872	6974	7075	7177	7278	7379		
83	7481	7582	7684	7785	7886	7988	8089	8190	8292	8393	i i	
84	8495	8596	8697	8799	8900	9001	9103	9204	9306	9407	1	
85	9508	9610	9711	9812	9914	0015	0116	0218	0319	0420		
	6320522							1231	1332			
87	1535	1636	1737	1839	1940		2143	2244	2345	2446	}	
88					2953		3155			3459		
89	3560	3662	3763	3864	3965	4067	4168	4269	4370	4472	<b>                                     </b>	
4290	4573	4674	4775	4877	4978	5079	5180	5282	5383	5484		
91	5585	5686	5788	5889	5990	6091	6192	6294	6395	6496		
92	6597		1			3 1		7305		7508		101
93		7710				8115			8418	8519		1110
94	8620	8722	8823	8924	9025	9126	9227	9328	9429	9531		2 20 3 30
95	9632	9733	9834	9935	<del>0</del> 036	0137	0238	0339	0441	0542		4 40
96	1		1		1047		1249	1350	1451	1552		5 51
97				,		2159	2260	2361	2462	2563		661 771
98		2765			•		3270	3371	3472	3573	,,,	881
99	3674	3775	3876	3978	4079	<del>1</del> 180	4281	4382	4483	4584	101	991
N.	0	1	2	3	4	5	6	7	8	9	D	Pts.

(72)				]	LOGA	RITH	M8		N.	<b>43</b> 00	υL.	633
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4300	6334685	4786	4887	4988	5089	5190	5291	5391	5492	3593		
01	5694	<b>579</b> 5		5997		6199	K j	6401		6603	1	101
02		6805				7209				7613	1	1110
03		7814		8016		8218				8622		2 20 3 30
04		8824		_		9227	1	9429		9631		4 40
05		9832	b .	•		0236				0639		551 661
1 .	6340740	1				1245		1446		1648	1	771
07		1850 2858	1950 2959	3059		2253 3261		2455		2656 36 <b>64</b>		881
08 09		3866	l	4067			4370			4672		9 91
1		l .	ŀ			5276	i i			5679	(	
4310		4873 5881				6284				6687		
11	_	6888	1			7291				7694		
13		7895				8298		1		8701		
14		8902	_			9305				9707		
15		4	<b>Q</b> 009	9		0311	ł I			0714		
	6350814					1317		1519	1	1720		
17	1820	D		2122		2323		2525		2726	l I	į
18	2826	2927	3028			3329				3731		
19	3852	3933	4033	4134	4234	4335	4435	4536	4636	4737		
4320	4837	4938	5039	5139	5240	5340	5441	5541	5642	5742		}
21	5843	5943	6044	6144	6245	6345	6446	6546	6647	6747		i ł
22	6848	6948	7049	7149	7250	7350	7450	7551	7651	7752		! <b>!</b>
23									8656			ŀ
24		8957	ł	i	}	l	1		96 <b>6</b> 0	l i		}
25									0664	0765	-	}
26	6360865									1769		
27						2371						
28									3675			
29	. 3876	)	ľ	1	1		1	4578		4779		
4330	4879	4979	5080	5180	5280	5380	5481	5581	5681	5782		
31	5882	5982	7085	7105	7005	7386	7196	7596	6684			
32	-					8388				7787 8789	1	1
33 34	7887 8889	7987 8989	0000			9390				9791		
F (			1	1		1	i .		0692	1		
35 36	9891 6370893	OOOG	10091	1109	1209	1304	1404	1504	1604	1794		
37		1994				2395				2795		
38	2895					3396				3796		
39	<b>3</b> 897			4197		4397	1			4797		1
4340			5097	5107	5298	5398	5498	5598	5698	5798		
41	5898	5998	6098	6198	6298	6398	6498	6598	6698	6798		
42		6998	7098	7198	7298	7398	7498	7598	7698	7798	100	100
43		7998				8398		8598		8798		1110
44	8898	8998	9098	9198	9298	9398	9498	9598	9698	9798		2 20 3 30
_	_		-	0198		0398	0497	0597	0697	0797	1	440
	77	1007	• •	1197		1397	_	1597	1697	1796	•	5 50 6 <b>6</b> 0
		<b>₽</b>				2396		2596		2795		770
			704	12182	3295	3395	3495		3694	3794		880
					•	4393		4593		4793	-	9 90
						5	6	7	8	9	D	Pts.

!

,	3500 L	-638		O	FNU	JMBE	Rs.					(73)
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4350	6384893	4992	5092	5192	5292	5392	5492	5591	5091	5791		
51	5891	5991		6190			6490		6689	6789		99
52	6889			7188		1	7488	1	7687	7787		1/10
53	7887	7986		8186		8385	8485	8585	8685			2 20
54	8884	8984			9283	9383		9582	9682			3 30 4 40
<b>5</b> 5	9892		!	0181	:	0380	0480					5 50
56	6390879	_				1377		1577	1676			6 59
50 57	1876			2175	ì	2374	2474		2673		•	7 69
58	2872	2972		3171		3371		3570				8 79 9 89
<b>5</b> 9	3869	3968	_		!	4367		+566				803
					į ,				1		1	
<b>436</b> 0	4865				5263	1	5463		_			
61	5861	5960		6160	1	6359		0558	6657			
62	6857				7255	1	7454	ł .				
63	7852			8151	t (	8350			8618			
64	8847	8947		9146	1	9345		9544		!		
65	9842	9942	0041	0141	0240	0340	0439	0539	0638	0738		
66	6400837	0937	1036	1136	1235	1335	1434	1534	1633	1732		1
67	1832	1931	2031		2230	2329		2528	2627	2727		
<b>6</b> 8	2826	2926	3025	3125	3224	3323	3423	3522	3622	3721		
69	<b>382</b> 0	3920	4019	4119	4218	4317	4417	4516	4616	4715		
<b>437</b> 0	4814	4914	5013	5113	5212	5311	5411	5510	5609	5709		
71	_			ð	6205	1	6401	1		/	1	
72		i .		i i	7199	i . ~ ~	7398			7695		] }
73					8192	1	ľ	:		8688		1
74	8788		8	1	9185		9383			1 1		ĺ
1			ł	l	0178	<b>}</b>	l	1	ŀ	0674		l
75	6410773				1 1		l	1	1567			1 1
				L	2162	1	1			2658		
77		_	l .	l	3154	١.	i	1	3551			
78	<b>374</b> 9	1 _	3	1	4146	1	ì			4642		
79		l I			1 1	1	1			f }		1
4380	4741	1			5138	.1		1		5633		1
81		1	5931	•		,	1	,		6625		i i
82		1	h		7120			1		1 1		1
83		t .			8111			1		1	]	
84				1	9102	1		1	9493	1 1		
8.5	9696	9795	9894	9993	<del>0</del> 092	0191	0290	0389	0488			
86	6120686										99	
87					2072					2567		
88					3062					3557	]	
89		L	4		4052			1	l I	4546		
4390	4645	4744	4843	4942	5011	5140	5239	5338	5437	5535		
91					6030					6524		
92		1		)	7019	1			7414	7513	[	98
93	7612	7711			5007					8502		1110
94	8601	8698			8996	1	9194		9391	9490	]	2 20
95	9589	]	Ì	Ī	9984	1_ (	0182		0379	0478		3 29 4 39
	6130577		ė.		1 1	1071		1268	1	1466		5 49
97	1565	_	ì	ł	1960	1 1	2157	} 1		2454	]	6 59
98	2552	2651	2750	1			3145			1		7 69
99	354 <sup>(</sup> )		3737	3836			4132		4320			8 78 9:88
$\frac{\overline{N}}{N}$	0	1	2	3	4	5	$\frac{1}{6}$	7	8	9	D	Pts.

(74)				L	OGAI	RITH	MS		N. 4	1400	) L	643
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4100	6434527	4625	4724	4823	4922	5020	5119	5218	5316	5415		
01	5514	5612	5711	5810	5908	6007	6106	6204	6303	6402		99
02	6500	6599	6698	6796	6895	6994	7092	7191	7290	7388		110
03	7487	7585	7684	7783	7881	7980	8079	8177	8276	8374		2 20 3 30
04	8473	8572	8670	8769	8868	8966	9065	9163	9262	9361		440
05	9459	9558	9656	9755	9853	9952	<del>0</del> 051	0149	0248	0346		5 50
06	6440445	0543	0642	0741	0839	0938	1036	1135	1233	1332		6 59
07.	1431	1529	1628	1726	1825	1923	2022	2120	2219	2317		7 69 8 79
08	2416	2514				2908		3105	3204	3302		989
09	3401	3499	3598	3696	3795	3893	3992	4090	4189	4287		
4410	4386	4484	4583	4681	4780	4878	4977	5075	5174	5272		
11	5371	5469	5567	566 <b>6</b>	5764	5863	5961	6060	6158	6257		.
12	6355	6453	6552	6650	6749	6847	6946	7044	7142	7241	,	
13	1			1	7733			8028	P	8225		
14	8323	8422	8520	8618	8717	8815	8914	9012	9110	9209		
15	9307	9405	9504	9602	9701	9799	9897	9996	δ094	0192		
16	6450291	_	II .	1	0684	0782	0881	0979	1077	1176		
17	1274	1372	H471	1569	1667	1766	1864	1962	2061	2159		
18						2749		T .	•			l
19	3240	3338	3437	3535	3633	3731	3830	3928	4026	4124		
4420	4223	4321	4419	4517	4616	4714	4812	4910	5009	5107		i
21			L		<i>55</i> 98	II.		5893		6089		ļ
22			•			6678	6777	6875	6973	7071	i i	
23	7169	7268	7366	7464	7562	7660	7758	7857	7955	8053		i
24	8151	8249	8348	8446	8544	8642	8740	8838	89 <i>3</i> 6	9035		
25	9133	9231	9329	9427	9525	9623	9722	9820	9918	0016	,	
26	6460114	0212	0310	0408	0507	0605	0703	0801		0997		
27	1095	1193	1291	1390	1488	1586	1684	1782	1880	1978		}
28					2468	2566	2665	2763	2861	2959		1
29	3057	3155	3253	3351	3449	3547	3645	3743	3841	3939		
4430	4037	4135	4233	4331	4429	4527	4625	4723	4821	4919	98	1
31	5018	5116	5214	5312	5410	5508	5606	5704	5802	<i>5</i> 900		1
32		I	•			6487	_		_	6879		
33	1					7467	ľ	_				
34	7957	8055	8153	8251	8349	8447	8545	8642	8740	8838		
3.5	1			•		9426				9817		
36			L			0405				0796		
37	6470894									1775		
38	1873				, -	2362	<b>.</b>		_	2754		
39	2851	2949		i i	1	3341		3536		3732		
4440	3830	3928	4025	4123	4221	4319	4417	4514	4612	4710		
41	4808		5003	5101	5199	<b>5297</b>				<b>568</b> 8	•	
42	5786	_	1	6079	l t	6274		6470		6665		98
43	6763		•	1		7252		7447		1 1		1 10
41	7741	<b>783</b> 8	7936	8034	8131	8229	8327	8425	8522	8620		2 20 3 29
45	8718	8815	1		9108	1	9304	9402	9499	9597		4 39
46	9695					0183		0378	0476	0574		5 49
47	6480671	0769			· •	1160	ĭ	1355	Ī	1550		6 59 7 69
48	1648	1745			1	2136	2234		1	2526		8 78
49	2624	2722	2819	2917	3015	3112	3210	3307	3405	3503		988
N.	0	1	2	3	4	5	6	7	8	9	1)	Pts.

5500 L	.667		0	F. NU	MBE	ERS.			······································	(	(79)
0	1	2	3	4	5	6	7	8	9	D	Pro.
6674530	4623	4716	4810	4903	4996	5090	5183	5277	5370		
5463	5557	5650	5744	5837	5930	6024	6117	6210	6304		93
6397	6490	6584	6677	6770		6957	7Q51	7144	7237		1  9
7331	7424	7517	7611	7704		1	7984		8170		2 19
8264	8357	8450	8544	8637	8730	8824	8917	9010	9104		3 28 4 37
9197	9290	9383	9477	9570	9663	9757	9850	9943	<b>0</b> 036		5 47
3680130	0223	0316	0410	1	0596	1	•		0969		656
1062	1156	_	1342	1435		1622			1902		7 65 8 74
1995	i -	4	2275	2368	( B)	2554		1	2834		984
2927	3020	3114	3207	3300	3393	3486	3580	3673	3766		
<b>3</b> 859	3952	4046		4232	l I		ľ	4605	4698	}	
4791	4884	1 .	5071	5164	11	5350			5630		
5723	5816		l 🕳 🚾 .	6095	1 3	6282	1		6561		
6654	6747		l			7213	1		7492		1
7585	7679	1	1	7958			8237		1		
8516		8703			1	9075		•	9354		
9447	9540	9633		9820	1	1		0192	0285		
3690378	0471	0564		0750		0936		T .	1215		
1308	1402	1495	1588	1681	1774				2146		l i
2239	2332	2425	2518	2011				2983	i · I	93	ł
3169		3355		3541		1	_	3913	4006	ł	
4099		4285			4564	I .					
<i>5</i> 028	5121	5214	5307	5400				5772		1	
5958								6701			
6887		7073	4	1	1 8	ſ	7537	7630	7723	<b>'</b>	
7816	7909	8002					4	8559	1		
8745	8838	8931		9117				9488			1 1
9674	9767	9859	9952	0045	0138	0231	0324	0416	0509		<b>!</b> [
3700602			1				1	1			
1530		1716		1902	1	1	Ĭ	1	2366		
		2644						l	3294		1
		3572				3943		_	4221		l
	4	4500				4871		5056			1
		5427				~	•	<b>5</b> 983	I I		1
0109	0202	6354	1	1	6632		Ī	ł	7003		}
<del>-</del> -		7281		7467	1 1	,			7930		}
		8208	1	1 _	K			8764			1
	li e	9135		1 .	9413	1			9783		1
_	1	0061	1		1 4		8	0617			
6710802	l	ł		1173	1	1358			1		
1728	1821	1914	2006	2099	2191	2284	2377	2469	2562		1
		2839							3487		00
	1	3765 4691		i .	1043	4135 5061	4228	4320	4413		92 1 <sub>1</sub> 9
		5616				5986		5246	5338   6263		2 18
		1	ľ	i					1		3 28
		6541		765	0818	091]	7003	7096	7188		4 37 5 46
1231 8208	8298	7466							8113		6 55
	9223				8668 9592				9038		7 54
720054	0147	0239			0517			9870 0794	9962 0886		8 74
0	1			;	l ———I						88 <sup>1</sup> 6
17	1	2	3	4	5	6	7	8	9	D	Pts.

(76)				L	OGAR	HTL	i S		N.4	5000	L.	653
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4500	${6532125}$	$\overline{2222}$	2318	2415	2511	2608	2704	2801	2897	2994		
01	3090	3187	3283	3380	3476		3669	3765	3862	<b>395</b> 8		97
02	4055	4151	4248	4344		4537	4634	4730	4827	4923		1110
03	5019	5116		5309	5405	5502	5598	<i>5</i> 69 <i>5</i>	5791	5887		2 19   3 29
04	5984	6080	1 <u> </u>	6273	6369	6466	6562	6659	6755	6852		4 39
				7237	7334	7430	7526	7623	7719	7815		5 49
05	6948		8105	8201	8297	8394		8596		8779		658
06	7912		9068	1	9261	9357		9550		9743	}	7 68 8 78
07	8876	_	<b>5</b> 032			0321	ľ	0513		0706		987
08	9839			1091	1188	1284	1380	1477	1573	1669		
<b>0</b> 9	6540802	•		•	1 1	i i	l	2439	2536	2632		1
4510	1765	1862		2054		2247	2343	3402		3595		1
11	2728	2825	2921	3017	3113	I .	3306 4268	4365		4557		1
12	<b>36</b> 91	3787	3883	3980	4076	1	1	5327		5519		1
13	4653	4750		4942	1 1	5134	6193	6289	6385	6481		1 1
14	5616	5712	5808	5904	6000		1	<b>[</b>	1	7443		}
15	<b>6</b> 578	6674		1				7251	7347	8405		1
16	7539	7635	7732	7828	7924	8020	8116	(	8309	9366		1
17	8501	8597	8693	8789	8885	8982		9174		ľ		
18	9462	9558	9655	9751	9847	9943	0039	0135	0231			
19	6550423	0520	0616	0712	0808	0904	1000	1090	1	1		
<b>452</b> 0	1384	1480	1577	1673	1769	1865	1961	2057	2153	2249		1
21	2345		2537			2825	2921	3017	i .	1 4 1		
22	3306		3498		3690	3786	3882	3978				1
23	4266		4458			4746	4842	4938	5034	1 00001	96	
24	5226	l	5418			5706	5802	5898	5994	6090		
	6186			1	4	6666	6762	6858	6954	7050		1
<b>25</b>						7625		7817	7913		'	1
26 27	8105					8585		8776	8872	8968		1
28	9064		9256	9352	9448	9544	9640	9736	9831	9927	•	1
<b>2</b> 9	6560023	0110	0215	0311	0407	0503	0599	0694	0790	0886		)
		l .	J	1	·	1461	l .	1653		1845		]
<b>45</b> 30	0982		2132	1	1	2420				1		1
31	1941		2132	2126	2024	3378	3474	3570	3696	1		1
32	2899		3091	4145	1910	4336	113)	4528	4624	4719		1
33	3857	1 40				5294		5486	5581	5677		
34	4815	1	ì	İ		H	i		6539	6635		
3.5	5773	5869	5964	0000	0150	6252						
36	6730	6826	0922	7018	7113	7209	1303	8358	8154			
37	7688	7784	7879	1975	8071	8160 9123	0010	0335	0110	9506		
38			8836		9028	<b>5</b> 080	0176	0279	0367	0463		İ
39	9602	9698		9889	9985	0080	0170	02/2	1004			l
4540	6570559	065 1	0750	0845	0941	1037	1132	1228	1324	1419		
41		1611	1705	1802	1898	1993	2089	2184	2280	2370		06
42	2471	2567		2758		2949		3141		3332		96 1:10
43		3523	l .	1	3810		1	4096		4288		2 19
44	4383	4479	4574	1670	4766	4861	4957	5052	i i	5243		3 29
45	5339	5434	5530	5626	5721	5817	•	6008	1	6199		4 38
46		6390	ľ	6581		6772			7059			5 48
47		7345		7536	7632	7727	•	7918		8109		6 58 7 67
48		8300	1	8491	8587	8682		8873		9064		8 77
49			9350	9446	9541	9637	9732	9828	9923	0019		986
$\overline{N}$ .	0	1	2	3	4	5	6	7	8	9	D	Pts.
7.4	U	A	44		77 (							

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N.4	5500 L	.658		0	FNU	JMBE	RS.					(77)
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4550	6580114	0209	0305	0400	0496	0591	0687	0782	0877	0973		
51	1068	1164	1259	1355	1450	1545	1641	1736	1832	1927		95
52	2023	2118	2213	2309	2404	2500	2595	2690	I	2881		1 10 2 19
53	2977	3072	3167	3263	3358	3453	3549	3644		3835		3 29
54	<b>3</b> 930	4026	4121	4216	4312	4407	4502	4598	1	4788		438
55	4884	4979	5074	5170	5265	5361	<b>5456</b>	i ·	5647	5742		5 48 6 57
56	5837	5932	6028	6123	6218	6314	6409	6504		6695		767
57	6790	6886	6981	7076	7171	7267		7.157	7553	7648		8 76
58	7743	7833	7934	8029	8124	1	8315	1	8505	8601		986
59	8696	8791	8886	8982	9077	9172	9267	9363		9553		
4560	9648	9744	9839	9934	ľ	0125	0220	1	ł .			
61	6590601	0696	0791	0886	0982	1077	1172	1267	1362	1458		
62	1553	1648	1743	1838	1934	2029		2219	2314	2410		
63	<b>25</b> 05	_	2695	2790	2885	2981	3076	3171	3266	3361		
64	<b>34</b> 56	3552	3647	3742	3837	3932	4027	4122	4218	4313		
65	4408	4503	4.598	4693	4788	4883	4979	5074		5264		
66	5359	5454	5549	5644	5740	5835	5930	1	6120	6215		
67	6310	6405	6500	6595	6690	6786	6881	6976		7166		
68	<b>72</b> 61	7356	7451	7546	7641	7736	7831	7926		8117		
69	8212	8307	8402	8497	8592			8877		9067	1	
4570	9162	9257	9352	9447		9637		9827		1 1	1	
71	6600112	0207	0302	0397	0492			0777		0967	95	
72	1062	11.57	1252	1347		1537		1727		1917		
73	2012	2107	2202	2297	K 1	2487			A	2867		'
74	2962	3057	3151	3246	3341	<b>34</b> 36		3626		3816		
75	3711	4006	4101			4386	1	4575			ł	
76	4860	4955	5050	5145		5335		5524		5714	į	
77	5809	5901	5999	6094	6189	6284		6473		6063		
78	6758					7232		7422		7012 85 <b>6</b> 0		
79	7706	7801	7896	7991		8181	8275	8370				
4580	8655	8750	3844	89 <b>3</b> 9	9034	9129		9318			1	
81	9603	9698	9793	9887	9982	0077	0172	0266		0456		
82	6610551		0740			1025				1404		1
83	1499			1783		1	1			$\frac{2351}{3299}$	1	•
84	2116	2541	2636		2825	2920		3109		ľ		1
85		3488	3583		3772	L I		4056		4246		
86		4435				4814		5003		519 <b>3</b> 6139		
87		5382	5477	5571		5761		5950		7086		
88	1 "-0"	6329		6518		6707 7654		0597 7819		8032	1 1	
89	7181	7275				1			1		1	1
4590			8316	8411	8505	8000	8095	0789	3884	8978	1 1	
91	9073	9168	9262	9357	9451	9546	9040	9135	9830	9924 0870		94
92		<u>i</u>	0208			0492		0081 1 <b>62</b> 6		1815		1, 9
93		1059	1154	1248	1343	1437 2383	2477	2572		2761		2 19
94	1910	2001	2009	2194	2288	1			1	1		3 28 4 38
95	2855	1			3233	3328	l i	3517		3706 4051		5.17
96	3800	i		_	4178	4273	4367	4462 5406		559.5		6 56
97	47 15	4840	1934	5028	5123	5217 6162	6256	6351	0445	0540		7 56
98	5690	1	5879	5973	6067 7012	7106		7295	7389	7484	]	8 75 9 35
93	6634	6729	6823	$\frac{6917}{}$		ļ ——— J					1	
N.	0	1	2	3	4	5	6	7	8	9	D	Pts.

669	L.	16000	N.4		IS	ITHE	DGAR	L				(78)
Pro.	D	9	8	7	6	5	4	3	2	1	0	N.
	-	8428	8334	8239	8145	8050	7956	7862	7707	7673	6627578	4600
95		9372	9277	9183	9089	8994	8900	8805	8711	9617	8522	01
1 10		0315	0221	0127	0032	9938	9844	9749	9655	J561	9466	02
2119		1259	1164	1070	0976	0881	0787	0693	0598	0504	6630110	03
3 29		2202	2108	2013	1919	1825	1730	163 <b>6</b>	1542	1447	1353	04
5 48		3145	3051	2956	2862	2768	2674	2579	2485	23 71	2276	05
6 57		4088	3994	3899	3805	3711	3616	3522	3423	3334	3239	Q6
7 67 8 76		5030	4936	4842	4748	4653	4559	4165	4571	1276	4182	07
986		5973	5879	5784	5690	5596	5502	5407	5313	5219	· 5125	08
		6915	6821	6727	6632	6538	6444	6350	6256	6161	7د 60	09
		7857	7763	7669	7574	7480	7386	7292	7198	7103	7009	610
		8799	8705	8610	8516	8422	8328	8234	8140	8045	7951	11
		9740	9646	9552	9458	9364	9270	9175	9081	8987	8893	12
		0682	0588	0494	0399	0305	0211	0117	0023	9929	9835	13
		1623	1529	1435	1341	1247	1152	1058	0964	0870	0640776	14
		2564	2470	2376	2282	2188	2093	1999	1905	1811	1717	15
		3505	3411	3317	3222	3128		2940	2846	2752	2658	16
		4445	4351	4257	4163	4069	3975	3881	3787	3693	3599	17
		5386	5292	5198	5104	5009	4915	4821	4727	4633	4539	18
		6326	6232	6138	6044	5950	5856	5762	5668	5574	5480	19
	94	7266	7172	7078	6984	6890	6796	6702	6608	6514	6420	620
		8205	8111	8018	7924	7830		7642	7518		7360	21
		9145	9051	8957	8863	8769	8675	8581	8487	8393		22
		ნა84	9990	9896	9803	9709	9615	9521	9427	9333	9239	23
		1023	0930	0836	0742	0646	0554	0460	0366	0272	6650178	24
		1962	1869	1775	1681	1587	1493	1399	1305	1211	1117	25
		2901	2807	2713	2620	2526		2338	2244	2150		26
		3840	37 +6	3652	3558	3464	,	3277	3183	3089	2395	27.
		4778	4681	4590	4497	4403	4309	4215	4121	4027		28
		5716	5622	5529	5435	5341	5247	5153	5039	4966	4872	29
		6654	6560	6466	6373	6279	6185	6091	5938	5901	5810	1630
		7592	7498	7404	7310	7217	7123	7029	6935		6748	31
		8529	8436	8342		8154	8061	7967	7873		7680	32
		9467	9373	9279	9185	9092	8998	8904	8810	8717	8623	33
		0404	0310	0216	0123	<b>U</b> 029	9935	9841	9749	9654	9560	34
		1341	1217	1159	1060	0966	0872	0778	0685	0591	6660497	35
		2277	2184	2090	1996	1903	1809	1715	1622		1494	36
		3214	3120	3027	2933	2839	2716		2558	2465	2371	37
		4150	1056	3963	3869	3776	3682	3588	3495	3401	3307	38
		5086	4993	4899	4805		4618	4525	4431	4337	4244	39
		6022	5929	5835	5741	5618	5554	5461	5367	5273	5180	640
		6958	1080	6771	6677	6584	6490	6396	6303	6209	6116	41
94		7893	7800	7706	7613	7519	7426	7332	7238	7145	7051	42
1, 9		8829	8735	-	8548	8454		8267	8174	8030	-	43
2 19		9764	9670	9577	9483	9390		9203	9109	9016	8922	44
3 28		0699	0605	0512	0418	0325	0231	0138	0044	J951 !	9857	45
5 47		1633	1540	1410	1353	1259	,,	1072	0979			40
6,5t		2568	2474	2381	2287	2194	2101	2007	1914	1820	1727	47
7 6t		3502	3409	3315	3222	3128	3035	2941	2848	2755	2661	48
8183 8183		4436	4343	4249	4156	1063	3969	3876	3782	3689		49
	D	9	8	7	6	5	4	9	2	1	0	N.

N. 4	6500 L	.667		0	F NU	MBE	ERS.		<del></del>	·		(79)
N.	0	1	2	3	4	5	6	7	8	9	ID	Pro.
4650	6674530	4623	4716	4810	4903	4996	5090	5183	5277	5370	<u> </u>	
- 51	5463	5557	5650	1		5930	:		6210	6304	i	93
52	6397	6490	6584	6677	6770	6864	6957	7051	7144	7237		1  9
53	7331	7424	7517	7611	7704	7797	7891	7984	8077	8170		2 19
54	8264	8357	8450	8544	8637	8730	8824	8917	9010	9104	}	3 28 4 37
55	9197	9290	9383	9477	9570	9663	9757	9850	9943	<b>T</b> 036		5 47
56	6680130			• •	1 1		•		1	0969		656
57	1062		1249	L .	1435	1 4	1622	Į.	1808	1902		7 65
58	1995	2088	2181	2275	2368	2461	2554	2647	2741	2831		8 74 9 84
59	2927	3020	3114	3207	3300	3393	3486	3580	3073	3766		3.04
4660	3859	3952	4046	4139	4232	4325	4418	4511	1605	4698	l	
61	4791	4884		5071	5164		5350	1				
62	5723	5816			6095	11	6282		6468	6561		-
63	6654	6747			7027	1 1	7213	l	7399	7492		
64			7772	†	7958	[ ]	8144	f	8330	8423		
65		1	8703	1		8982	ļ		<b>S</b>	9354		
66	9447		9633			9913	(			0285		
67	6690378	0471	0564	()657	1	0843	1	-	1122	1215	j	
68	1309	1400	1405						20.53	2146		
69	2230	9999	2425	2518	2611	2704	2797	2890	2983	3076	93	
1		i ·	1	3448			l	ľ	I .			
4670 71	1 0.00			4378						1006		
72	4099			5307							1	
73				6237						5794		
74	1			7166						1		
		l.				11			1	•		
75	7816	7909	8002	0003	0117	0201	03/3	0905	8559	1		
76	8745	8838	8931	0050	0045	0139	0021	0904	9488 0416			
78	9074 6700602	0605	0700	0881	0074	1066	1150	1050	1945	0509		
79	1500	1623	1716	1800	1902	1005	2087	9180	2073	1438 2366		
1		ľ		1		1	Ĭ			1		
4680		2551								3294		
81		3479		1	•		1		1	4221		
82		4407	I		•		ľ		ľ		1	
83 84		5334	1	6447	_	l I						
. '	,		ľ					1	ſ	7003		
85		7189		1						7930		
86		8116	1		The state of the s	8						
87		9042							1	9783		
88	9876 6710802							1	0617	0710		
89			1			11			1	j - i		1
4690										2562		
91		2747				3117			I .	3487		00
92	<b>3</b> 580	3673				4043			4320	4413		92 1  9
93		4598	5616		4876 5801	5809	5986	6070	5246			2 18
94	5431	i				1				0263		3 28
95	6356		6541		· . •	6818				7188		4 37
96	7281	1 .		7558	í				_	8113		5 46 6 55
97	8206		8391		1	8668				9038		7 54
98		9223			•	9592			9870	9962	[	874
99	6720054	U147	U239			0517				0880		9.83
N.	()	1	2	3	4	5	6	7	8	9	D	Pts.

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08	9046	9134	9223	9311	9399	9488	9576	9665	9753	9842
09	9930	<b>O</b> 019	0107	0196	0284	0373	0461	0550	0638	0726
4910	6910815	0903	0992	1080	1169	1257	1346	1434	1522	1611
11	1699		1876	1965	2053	2141	2230	2318	2407	2495
12	_			2849	2937	3026	31.14	3202	3291	3379
13	3468		3644	3733	3821	3910	3998	4086		4203
14	4352	1110	4528	4617	4705	4793	4882	4970	5058	5147
15	5235	5324	5412	5500	5589	5677	5765	5854	5942	6030
16		0207	6295		1	6500	6649	6737	6825	6914
17		1 _		7267	7355	7444	7532	7620	7709	7797
18	7885	7974	8062	8150	8238	8327	8415	8503	8592	8680
19		8857	8945	9033	9121	9210	9298	9386	9474	9563
4920	9651	9739	9828	9916	5004	0092	0181	0269	0357	0445
21	6920534			1	0887	4	1063	1151	1240	1328
22		1504			i .	1857	1945	2034	2122	2210
23		2387	l.	2563	2651	2739	2828	2916	3004	3092
24		3269	3357	3445	3533	3621	3710	3798	3886	3974
25	4062	4151	4239	1327	4415	4503	4591	46SO	4768	4856
26	4944	5032	5120	5209	5297	5385	5473	5561	5649	5737
27	5826	5914	6002	6090	6178	6266	6354	6443	6531	6619
28	6707	6795	6883	6971	7059	7148	7236	7324	7412	7500
20	7588	7676	7764	7853	7941	8029	8117	8205	8293	8381
4930	8469	8557	8645	8733	8822	8910	8998	9086	9174	9262
31	9350	l .		1	9702	9790	9878	9967	0055	0143
32		l .	4	1		0671	0759		0935	1023
33	1111	1199	]	1375	1463		1639	1727	1815	1903
31	1991	2079	2167	2256	2344	2432	2520	2608	2696	2784
35	2872	2960	3048	3136	3224	3312	3400	3488	3576	3664
36		3839		4015		4191		-	4455	4543
37	1	4719		4895	4983	5071	5159	5247	5335	5423
38	5511	5599	5687	5775	5863	5951	6039	6126	6214	6302
38 39	6390	6478	6566	6654	6742	0830	6918	7006	7094	7132
4040	7080	7957	7445	7582	7801	7700	7707	700 E	7079	รกลา 🌡

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N. 4	7500 I	. 676	)	0	F NU	MBEI	Rs.					(81)
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4750	6766936	7028	7119	7210	7302	7393	7485	7576	7667	7759		
51	7850		8033		8216	8307	3399	8490	8582	8073		91
52	8764		8947		9130	9221	9313	9404	9495	9587		1 9
53	9678		9861	9952	0044	0135	0226	0318	0403	0500		2 18
54	6770592		0774		0957	1049	1140	1231	1323	1414		3 27
			1688		1871	1962	2053	2145	2230	2327		4 36 5 46
<b>5</b> 5	1505		2601	2692	2784	2875	1	1	3149	3210		6 55
5ô	2418		3514		3697	M .	3879	3971	4062	4153	Ì	7 64
57	3332		4427		4609	4701	4792	4883	1	5000		8 73
58	4214	5248	5340		5522	5613			5887	5978		9 82
59	5157		1			1				l _		
4760	6070			6343	6434	6526	1	1	6799	6891		
61	6982			7255		7438	7529	7620		7803		
62	7894		8076		8259	8350	8441		8023	8715		1
63	8806		8988	9079	9171	9262	9353	9444		9626		
64	9718	9809	9900	9991	<b>0</b> 082	0173	0264	0356	U+47	0538		}
65	6780629	0720	0811	0902	0394	1085	1176	1267	1358	1449		1
66	1540	1632	1723	1814	1905	1996	2087	2178	2269	2360		1
67	2452	2543	2631		2816	2907	2998	3089	3180	3271		
68	3362	3454	3545	3030	3727	3818	3909	4000	4091	4182		1
69	4273	_	4455	4546	4637	4729	4820	4911	5002	5093		<b>j</b>
4770	5184	5275	5366	5457	5548	5639	5730	5821	5912	6003	1	
71		6185				0549	P .		6822	1		
72		7095				7459		1			ď	I
73	7914	•	8036		8278				8642		91	
74	8824		9006		9188	9279	ľ		9552	1 .	į.	
1 1						1		2		1		Ì
75	9734		9916				"			0552	I	
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77		1643			2825		2098		2280	2371		}
78				2734 3643	3734	T -	3007		3189			l
79	1	3461	3552			3825	l		4097	4188		
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81				_	5551	1.4			1			}
82	_		ľ		6459	1.0		_	6822		i	1
83				_	7367			1		7821		ł
84	7912	8002	8093	8184	8275	8366	8 150	8547	8638	8729		ł
85	8819	8910	9001	9092	9182	9273	9364	9455	9545	9636		
86	9727	9818	9908	6999	<u>0</u> 090	0181	0271	0862	0453	0544		Ī
87	6800634	0725	0816	0906	Ŏ <b>9</b> 97	1038	1179	1269	1360	1451	j	1
88	1541	1632	1723	1814	1904	1995	2086	2176	2267	2359		
89	2448	2539	2630	2720	2811	2902	2992	3083	3174	3264		
<b>4790</b>	3355	3446	3536	3627	3718	3809	3899	3990	4080	4171		[
91	<b>426</b> 2		4443	4534	_	4715	4806	4896		5077		Ī
92	5168		5349			5621	5712	5802		5984		90
93	6074		6256	1 _ 1	6137	6527	6618		6799	6890		1 9
94		7071	7161	7252	7343	•	7524	_	7705	7796		2 18
					8248	8339		8520		8701		3 27 4 36
95 08		7977	8067	8158		9244			9516			5 45
96	8792 0607		8973	9063	9154 7050	Y -	l i		0421	0512		6 54
97	9697		9878	9969	0059 09 <b>64</b>	l <b>E</b>	0240	0331 1 <b>236</b>		1417		7 63
98			0783	0874		14	1145 2050	2141	2231	2322		872
99	1507	1598	1698	1779	1869			2171				9'81
N.	. 0	1 1	2	13	4	1 5	6	7	8	9	D	Pts.

OO 1	L.	8000	N. 4		1 S	1THM	OĞAR	J.				(82)
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		3227	3136	3046	2955	2865	2774	2654	2503	2503	6812412	1800
91		4131	4041	3950	3860	3769	3679	3588	3498	3408	3317	10
1 9		5035	4945	4855	4764	4674	4583	4493	4402	1312	4222	02
2 18		5940	5849	5759	5668	5578	5488	5397	5307	5216	5126	03
3 27 4 36	ļ	6844	6753	6663	6572	6482	6392	6301	6211	6120	6030	04
5 46	- 1	7747	7657	7567	7476	7386	7295	7205	7115	7024	6934	05
6 55	- 1	8651	8561	8470	8380	8289	8199	8109	8018	7928	7938	06
7 64 8 73		9554	9464	9374	9293	2193	9103	9012	8922	3832	3741	07
9 82	- 1	0457	0367	0277	0187	0098	<b>5006</b>	9916	9825	9755	9645	08
-		1360	1270	1180	1090	0999	0909	0819	0728	0633	6820548	
		2263	2173	2083	1992	1902	1812	1722	1631	1541	1451	810
			3076	2985		2805	2715	2624	2534	2144	2351	11
		1068	3978	3588	3798		3617	3527	3437	3346	3256	12
	- 1	4971	4880	4790	4700		4520	4429	4339	4240	4159	13
		5873	5783	5692	5602		5422	5331	5241	5151	5061	14
		6775	6684	6594	6504	6414	6324	6233	6143			
			7586		7406		7225	7135	7045	6055	5963	15 16
		8378		8398	8307		8127	8037	7947	6955	6885 7766	17
		9479		9299	9209		9029	3938	881S		8668	18
	Į	0380			0110		9930	9840		9857		19
		1281		1101	1011	0921			i	_ [		
		2182		2002	1912		0831	0741	0651	0560	6830170	1820
		5083			2812	1822	1732 2632	1642) 2542	1551	1461	1371	21
		3983		3803	3713	3623	3533		2452 3353	2362	2272	22
		4883			4613	4523	4433	3443 4343	4253	3263	3173	23
	90	- 6		- 1	i					4163	4073	24
		5783	1	5603 6503	5513	5423	5333	5243	5153	5083	4973	25
		6683		7403		6323	6233	6143		5963	5873	26
		7589 8482	1	- 1	7313 8212	7223	7133	7043	6953	6863		21
		9381	1	9202	9112	8122 9022	8032	7942	7853	7763	7673	26
			- 1				8932	8542	8752	8662	8572	29
4		0280		0101	<b>0</b> 011		9831	9741	9651	9561	9471	1830
		1179		1000	0910		0730	OR 10		0460	6940370	31
		2078	1	1898	1808	1719	1629	1539	1449	1339	1209	32
		2977 3875			2707	2017	2527	2138	2348	2258	2168	33
		- 1		1	3605		3426	3330	3246	3156	3006	34
		4773		4594	4501	L I	4924	1234	4144	1055	3965	3.5
		5671	5581	5492	5402		5222	5132	5043	4953	4953	36
		6569		6389	6300		6120	6030	5940	5851	5761	37
		7466 8364	7377	7287	7197	7107	7018	6928		6748	6659	38
			l		8095	8005	7915	7825	7736	7646	7556	39
	1	9261		- 1	8992	8902	8813	3723	8633	8543	8454	1840
00		0158			9899	9799	9710	9620	9530	9111	9351	41
90	- 1	1055	0965		0786	1	0607	0517	0427	0338	6850248	42
218	H	1952	1862	1772	1683	1593	1503	1414	1321	1234	1145	43
3 27		2818	- 1	2669	2579	2490	2400	2310	2221	2131	2041	44
4 36		3744	3655	3565	3476	3386	3296	3207	3117	3027	2938	4.5
5 45	1	4641	4551	4461	4372	4282	4193	4103	4013	3924	3931	46
7 63		5537	5447	5357		5178	5089	4999	4909	1820	4730	47
872		6432	6343	6253	6164	6074	5984	5895	5805	5716	5620	48
9 61		7328	7238	7149	7059	6970	6880	6791	6701	6611	652?	49
Pis.	$\overline{\mathbf{D}}$	9	8	7	6	5	4	3	2	1	0.	N.

0500 L	. 703			OF N	IUME	ERS.					(87)
0	1	2	3	4	5	6	7	8	9	D	Pro.
7032914	3000	3086	3172	3258	3344	3430	3516	3602	3688		
3774	3860		4032	4118	4204	4290	4376	4461	4547		86
4633	4719	4805		4977			5235	5321	5407		1 9
<b>54</b> 93	5579	_	•	5837		6009		6181	6266		2 17 3 26
6352	6438	6524	6610	6696	6782	0808	6954	7040	7126		484
7212	7298	7383		1	7641		7813		7985		5 43 6 52
8071	8157	8242			8500				8844		7 60
8930	9015		_		9359		1	9617	9702		8 69
9788	9874	9960			0218 1076			0475 1334	0561 1419		9/77
7040647	0733	0818		1	1						
1505	1591	1677	'	2707	1934				2278		
2363	2449		3479	i .		3736	2964	3908	3136 3993		
3221 4079	3307 4165			4422	4508	_	-	4765	4851		
-	5023	5108		_		5452	5537	5623	5709		
	ľ		6052		6223	6309		6480	6566		
5794	5880 6738			6995	_	_	7252		7423		
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0936					1364			1621	1707		
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		2820				3162	3248	3333	3419		
3505		3676			<b>3</b> 933	4018	4104	4189	4275		
4360	4446	4532	4617	4703	4788	4874	4959	5045	5131		
5216	5302	5387	5473	5558	5644	5729	5815	5901	5986		
6072	6157	6243	6328	6414	6499	6585	6670	6756	6841		
6927	7012	7098			7355				7697		
7782	7868	7953	8039	8124	8210	8295	8381	8406	8552		-
8637	8723	8808	8834	8979	9065	9150	9236	9321	9406	1	
9492		9663			9919			0176			
7060347	0432	0518	0603	0688	0774	0859	0945	1030	1116		
1201	_				1628						
2055	2141				2483		•		2824		
2910					3337				3678		
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4617					5044				5386		
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6325		6495		1	1				I		
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8031	8116			8372	9310	9543		8713 9566			85
8884	8969				0163						1  9
9737 7070589	9822 067 <i>5</i>			0930	1 1		1186	1271	1357		2 17
			_	1		1953		2124			3 26 4 34
1442	1527			1783 2635	2720		2039 2891	2976			5 43
2294 3146	2379 32 <b>3</b> 2			3487	3572	_		3828	<b>3</b> 913		651
3998	4083	4169		<b>43</b> 39	h .	4509		4680	4765		7 60 8 68
4850	4935	5020		1	1	5361	5446	5531	5617	86	977
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	(88)				I.	OGAL	RITHI	115		N. 5	1000	) L.	7
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H	5100	707 5702		5872		6043	17		62)5		0408		3
	01			6721 7575		7745	5979	7061		7234	7319		Y
	03	8256	8541		8511	8596			_	_	9022		
ı	04	9107	9142	9277	9362	9117	9532			9787	9572		
	05	9957		0124	0213	0298	0383	0168	0553	0638	0725		
	00	7080809			1063	1148		1318		1499	1574		ď
	07	1659	1745	1829		_	2081				2424		į.
ı	08	_	2594	2679	2764	1	2934			3189	3.74		Ċ,
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ı	13	6758	_	6928	7013	7098				7437	7522		-
H	14	7607	7692	7777	7802		8032		8202		5371		a
ı	15	8450	8541	8626	8711	8796	8881	8966	9051	9136	9220		)
B	16						9730						7
ı	17	7090154					0579	_		1	0918		Ĉ.
ı	18		1088			1342			1597		1766		1
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ı	5120		2781		2954		3124	3209		5379		+	Y
ı	21	3548	3633		3802		3972			4226			h
1	22		5328				4820		5537		213A		Ш
ı	29	6091			6945	6430	6515			5922 6769			
ı	-	6939			7193	_	7362	_		7617	7701		
ı	25 26		7871		8040	8125	8210	8204	8379	8404			9
ı	27	8633		_	8887		9057	9141	9226	2311	9305		11
ı	28	9480	9565	9650	9734	9819		9988	0073	0138	0242		1
١	29	7100327	0412	0490	0581	0666	0750	0835	0920	1004	1089		É.
ı	5130	1174		1343	1428	1512	1597	1682	1766	1851	1936		11
ŀ	31		2105		2274	2359	2443		2613	النافقية	2782		4
ł	32	2966			3120	3205			_	3513	_		1
ı	33	3713	3797	3852 4728	3966 4812	4897	4136	_	4305 5151	4389 5285	5320		П
ł					5654	3718		_	5996		6100		Ш
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H	TEST .			8110	8175	827 1	8364	5448	8533	8617	8702		17
1	39	8786	8871	8955	40 ki	0151	9209	9293	9378	9402	9317		1
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	42				1774		1744		1912	1996			
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1	47	5512		5710			2364			0217	D D		, in
	48					67231		0890		7080			
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)500 L.	694	. day *-	O	FNU	JMBE	Rs.	रस्य का	* ************************************		~	(85)
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5946052	6140	6227	6315	0403	6491	6578	6006	6754	6842		
6929	7017	710.5	7192	7280	11.0		7543	1	7719	İ	87
7806	7894	7982	8069	8157	I	8333	1	Ī	8596		1, 9
8683	8771	8859	8940	9034	9122	9209	9297	9335	9472		2 17
9560	9618	9735	9823	9911	9998	<b>0036</b>	0174	0261	0349		3 26 4 35
3950437	0524	0612	0700	0787	0875	0062	1050	1138	1225		544
1313	1401			1663	7			2014	2102		6 52
2189	2277			2540	I	2715		2890	2978		761
3065	<b>3</b> 153	3240			3503		3678	ĭ -	3854		9 78
3941	4029	4116	4204	4291	4379	4467	4554	4642	4729		3170
4817	4001	4002	5079	5167	5255	5342	5.190	5517	5605		
5692	5780	5807	59 <b>5</b> 5	_	T .	0217			6180		
6568	6655		6830		l l	7093		7268	7355		
7443	7530		7705	1	19	7968		8143	8230		
8318	8405		8580			8843	1	9018	9105		}
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9193	9280		_	9542	19	9717	9805				
3960067	0155		0330	ľ	H	0592		0767	0954		
09 12	1029		1204	_		1466	1554		1728		
1810	1903	1991	2078	2100	2253	2014	2+28	2313	2603		1
2090	2117			1		1	1	i	3477		1
_	3651			3913							
4138	4525	1	•	4787	<b>[ ]</b>	_		•	( n		
<b>5</b> 311	5399	1	_	5061	4	1		6010	1 . K		
6185	6272			6534				6883			
<b>70</b> 58	7145	7232	7320	7407	7494	7582	7669	7756	7844		
7931	8018	8105	8193	8280	8367	8455	8542	8629	8716		
••	8891	8978	9066	9153	9240	9327	9415	9502	9589		
		9851	9938	0025	0113	0200	0287	0374	0462		
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2203	2381	1	,	2642	()	I		2991	3078		
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		2050			2311						
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3616	3703		3877		4051		_ ~	4311	4398		1 9 2 17
4485	4572	4659	4746	4833	4920	5007	5094	5181	5268		3 26
5355	5412	5529	5616	5703	5790	5877	5964	6050	6137		434
6/224	6311	6398	_		(1)	6746		6920	7007		5 43
7093	7180		7354	ľ	1			7739	7876		652
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(90)				I.	OGAR	HTTI	WS .		N. 5	2000
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200	7160033	0117	0200	0284	0367	0451	0555	0018	0702	0785
10	0859	0952	1036	1119	1503		1370			
02	1703	1787	1870	1954	2037	2121	2204	2 189	2371,	2435
03	2599	262		_	2872	2956	3039	3123		
04	3979	3456	3540	3623	3707		3871			4124
05	4207	التانيان		4458	_		4708			4958
06	_	5125					5542			
07	5876				6200		0576			
08		6793			7013		7210 8041		8211	7400
		7627	7710	7794						
5210	8377			8627			9877 9711		9044	9127
11	9211						0514			
12	7170044 0877				0377		1377		1544	1027
14		1794			2043		2210			OF KINE
15							3013	,	1	
16	2513			2793	2876 3709		9875			
17					4541		4708			
18	5041		5207		5374		5540			5700
19	8679				6206		6372			
5220	6705		6871		7038	7101	7201	7287	7371	7454
E)	7537				7870					
22	8309			8018						9117
23	9200	9283		9450			9621			
24	7180032				0361	0447	0530	0614	0697	U780
25	0863	09 16	1020	1112	1195	1279	1362	1445	11529	11611
26		1777			2026					2142
27	2525	2608	2691	2774	2857	2940	3023	3107	3190	3273
28	3356	10000	3522	360 ;	3688	3771	3854	3937	1020	4103
29	4186	4269	1353	4436	4519	4002	4695	1768	1851	4434
5230	5017	5100	5183	5266	5947	5 132	5513	5508	5681	5701
31	5847		6013	6096	6179	6262	6345	6428	6511	6594
32	6677		6413		7009		7175		7341	1
33			7679		7839		8005		8171	8254
3 \$				1	8669		18835		4001	908 F
35		[9250			0.490					9913
36	9996	0074	0162	0245		11	0494			07 43
37					1137	1	1323		1 149	
38		2567	1821				2152			2101
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41		5053			1473		14634 15467			
43		5881			5502	n				6514
44	_				6958	_	7126			7372
45			7621		7786	11	7952			8200
45					8011		18780			402K
47					3442					1856
48		5021	0101		0269		0135			
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2500 L.	720		01	F NU	MBE	RS.			<del></del>		(91)
0	1	2	3	4	5	6	7	8	9	D	Pro.
7201593	1676	1758	1841	1924	2007	2089	2172	2255	2337		
2420	2503	2586	2668	2751	2834	2916	2999	3082	3164		82
3247	<b>3</b> 330	3413	3495	3578	3661	3743	3826	3909	3991		1 8
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3984	4066	-	4231	4314	4396	1	4561	4644	<b>4726</b>		
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34	1196	1276	1350	1436	1516	1596	1676	1756	1830	1919		1
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65	5902	5981	6061	6140	6220	6299	6378	6458	6537	6617		
66	6696	6776		6935	7014	7094	7173	7252		7411		
67	7491	7570	7650	7729	7808	7888	7967	8017	8126	8206		
68	8285	8364	8414	8523	8603	8682	8762		8920	9000		
69	9079	9159	9238	9317	9397	9476	9556	9635	9714	9794		
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71	7380667	0747	0826	0905	0985	1064	1143	1223	1302	1382		
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3532	3609		3762			3992		4145	4222	1	
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06	8302	8441	8520	8599	8678	8756	8835	8914	8993	9072		6
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11	2304	2383	2462	2541	2619	2698	2777	2856	2935	3013		1
12	3092	3171	8250	3328	3407	3486	3505	3644	3722	3801		I
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22	0964	1043		1200	1279	1357		1515	1593		1	
23	1750	1829	1908	1986	2065	2144	2222	2301	2379	2458		1
24	2537	2615	2694	2773	2851	2930	3008	3087	3166	3244		
25	3323	3401	3480	3559	3637	3716	3794	3873	3952	4030		
26	4109			4345		4502		4659		4816		ļ.
27	4895	4973		5130			5366	L		5602		
28	5680	5759	5837	5916	5995	6073	6152	6230	6309	0387	}	
29	6466	6544	6623	6702	6780	6859	6937	7016	7094	7173		
5530	7251	7330	7408	7487	7565	7644	7722	7801	7880	7958		
31		8115	1	8272		8429		8586	_			
32	8822				9136	9214		9371	9450	1		
33	9607	9685	9764	9842	9921	9999	0078	0156	0235	0313		1
34	7430392	0470	0549	0627	0705	0784	0862	0941	1019	1098		
35	1176	1255	1933	1412	1490	1560	1647	1725	1804	1882		
36	1901	1				2353	2431	2510		2607		
37		2824		L	3059	3137		3294	3373	3451		
11	3530	3608	3686	3765	3843	3922	4000	4078	4157	4235		
39	4314	4392	4470	4549	4627	4706	4784	4862	4941	5019		
5540	5098	5176	5254	5333	5411	5490	5568	5646	5725	5803		
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2717		2867	2943	3018	3094	3169			3395		9 68
3471		3622		1	3848	3923	_		4149		
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3034	3109	3184	3259	3334	3409	3484	3559	3634	3709		
3784	3859	3934	4009	4085	4160	4235	4310	4385			
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01	5029	5104	5178	5253	5328	5403	5478	5553	5628	5702	
02	5777	5852	5927		6077	6151			6376	المتناقب	
03	6526	_	6675		6825		6975	_		ر التانيات	
04	7274		7424	7499	7573	7648		7798	7873	7947	
05	8022		8172	8247	_	8396		8546		8696	
06		8845		,	9070			9294		9443	
00	7640266	9593	9668		9817	0640	9967			0181	
08	1014		1163		0565			0789 1557	0864 1612	0939 1687	
-	_	_									
810	1761	1836 2583	1911 2658	_	2060	2135 2882	_	3032	2359	2434	
11	3256		3406	_		3630		3779	3854		
13		4078	4153	4227		4377	4451	4526		4670	
14	_	4825	4900	4974		5124	5198	5278	5348	5423	
	5497	5572	5647		5796	5871	5945	6020			•
16			6393	5721	6543	6617	6692		_	6916	
17	6991	7065	7140	7215	7289	7364	7439	7513		7603	
18	7737	7812	7886	7961	8036	8110	8185	8260			
19	8484		8633	8707	8782	8857	8931	1000	9081	9155	
	0930	9304	93791		9528	9603	9678	9752	9827	9901	•
21		0051	0125	الكانات	0274	0349	0424	0499		0647	•
22	7650722	التكنيني	0871	STATE OF THE PARTY	1020	1095	1170	1244		1393	
23	1468	1542	1617	1692	1766	1841	1915	1990	2065	2139	•
24	2214	2238	2363	2437	2512	2586	2661	2736	2810	2885	•
25	2959	3034	3108	3183	3258	3332	3407	3481	3556	3630	
26		3779	3854		4003	4078	4152	4227			•
27	4150		4594	4674	4748	4823	4897	4972	5046		•
28	5195	5270	5341	5419	5493	5568	5643	5717	5792	5866	
29	5941	6015	6090	6164	6239	6319	6388	6462	6537	0011	
830	6686	6760	6835	6909	6984	7058	7132	7207	7281	7356	
31.	7430	7505	7579	7654	7728	7803	7877	7952	8026	8101	•
32	8175	8250	8324	8399	8473	8547	8622	8696	8771	8845	
33	8920	8994	8008	9143	9218,	9292	9366	9441	9515	9590	
34	9664	9739	9813	9888	9962	0036	0111	0185	17410	0334	
35	7660409	0483	0557	0632	0708	0781	0855	0930	1004	BEER	
98	1159	1227	1302	1376	1450	1525	1599	1674	1748	1823	
37	1897			2120	2195	2269	2343	2418	لناتنا	2567	
38	26+1	2715			2938	3013	3087	3162			
39	3385	3459	3534	3608	3062	3757	3831	3905	3980	4054	
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43		2120		6582	6656	6730	6805	6879	6933	7028	
44					7399	7474	_	7622	7897	7771	
45	<b>新聞歌</b>	7919	_		8142	8217	8291	8365		8514	
461	8588	8662	_	8811	8885	8900	_	質問題	9182	9257	
47			_	_	0.871	9702	9777	9851		9999	
48			0222   0965	0296 10 <b>39</b>	0371 1113	1187	0519	0593 1336	1410	0742	
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	1199	1275	1347	1421		1569	1049	1717	1791	1866		
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	2660	2754	2828	2902	2976	3050	3124	3198	3273	3347		
	3421	3495	3569	3643	3717	3791	3865	3939	4013	4087		
	4161	4235	4309	4383	4457	4531	4605	4679	4753	4827	74	
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	5641	5715	5789	5863	5937	6011	6085	6159	6253	6307		
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		7195		7343	7417	7491	7565			7787		
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09	5140	5213	5287	5560	5451	5307	5581	5654	5728	5801	
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11	6610	6683	6757	6830	6903	6977	7050	7124	7197	7271	
12	7344	7418	7491	7565	7698	7712	7785	7858	7932	SPREAM	l
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2576	2047	2719	2791	2863	2934	3005	3078	3149	3221		7 50 8 58
3293	3361	3436	3508	3579	3651	3723	3794	3866	<b>3</b> 938		965
<b>4</b> 010	4081	4153	4225	4296	4368	1440	4511	4583	4655		
4726	4798	4870	4941	5013	5085	5156	5228	5300	5371		i
5443	5514	5586	5658	5729	5801		5944	l	6088		
6159	6231	6303	6374	6446	6518		6661	6732	1		į
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10	4010	4081	4153	4224	4295	4300	4437	4509	4580	4001	1
02	4722	4793	4861	4136	5007	5078	5143	5220	5291	5363	1
03	5434	5505	5576	5647	5718	5781	5861	5932	0003	6074	1
04	6145	6216	6288	6359	6430	6501	0572	6643	6714	0780	H
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15	2544	_	2686	_	2528	2899		3041	3112		
14	3254	3325	3396	3467	3558	3609	3081	3752	3823	389	4
15	3965	4036	4107	4178	4249	4320	4391	4462	4533	400	٠
16	4675	4746	4817	4888	4959	5030	5101	5172	5243	5314	۰
17	5385	5450		5598	506J	5740	5811	5882	5953	002	į
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25	1061	1132	1203	1274	1345	1415		1557	1628	1495	ľ
26	1770	1841		1983	2053	2124	2195		2337		
27	2470	_	2621	2691	2762	2833		2975	3046	3117	
28	\$188	3258	3329	3400	3471		3613		3754	3823	- 6
2.3	3896	3967	4038	4109	4180	4250	4321	4392	4463	4534	۱
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52	6021		6163		6305			0517	6588	6039	N
33	6730	6800	_	6942	7013	7084	7155		7296	7367	Ţ
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43	4512	4583	4653	4724	4795	4865	4936	5007	5078	5148	
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53	i l	7432						7869	5	8015		2 15
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<b>5</b> 5	8818	8891	8964	9036	9109	9182	9255	9328	9401	9474		5 37
56	9547	7620	9693		9839			0057		0203	4	644
57	7750276		0422	0495	0568	0641	0713		0859	0932		751
58	1005	1078	1151	1224	1297	1369	1442	1515	1588	1661		<b>9</b> 58 <b>9</b> 66
59	1734	1807	1880	1952	2025	2098	2171	2244	2317	2390		
5960	2463	2535	2608	2681	2754	2827	2900	2973	3016	3118		
61	<b>3</b> 191	3264	3337	3410	3483	3555	3628	3701	•	3847		
62	3920	3993	4065	4138	4211	4284	4357	4430	4502	4575		
63		4721	4794	4867	4939	5012		5158	5231	5304		
64	<b>53</b> 76	5449	5522	<b>5595</b>	5668	5740	5813	5886	5959	6032		
65	6104	6177	6250	6323	6396	6469	6541	6614	6687	6760		ĺ
66	6832	6905	6978	7051	7124	7196	7269	7342	7415	7488		
67		7633	7706	7779	7851	7924	7997	8070	8143	8215		
68	8258	8361			8579			8798	8870	8943	l l	
<b>6</b> 9	9016	9089	9161	9234	9307	9380	9452	9525	9598	9671		
5970	9743	9816	9899	9962	<b>0</b> 034	0107	0180	0253	0325	0398		
71	7760471	0543	0616	0689	0762	0834	0907	0980	1053	1125		
72		1271			1439		_	1707	1780	1852		
73		1998			2216	i .		2434		2579	1	
74	2652	2725	2798	2870	2943	3016	3088	3161	3234	3306		
75	<b>337</b> 9	3452	3524	3597	3670	3743	3815	3888	3961	4033		
76	4106	4179			4397			4615	4687	4760		
77		4905			5123	(1		5341		5486		
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81		7811			8028	14			8319	8391		
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83		9263	<b>.</b>		9480	18		9698	(	9843		
84		1	]		0206			B .	0496	0569		
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6200	7923917	1987	4057	4127	4197	4267	4937	4407	4477	4547	
1600	4617	4687	4757	4827	4897				5178		
02		5388	5458	5528	5598	5008	5738	5808	5878	5948	
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04	6718	6788	6853	6928	69)8	7008	7138	7208	7278	7348	
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06	8118	8188	8258	8328	839K	8466	8538	8008	8078	8747	
07	8817	8887	8957.	9027	9097	9167	9237	9307	9377	9447	
08	9517	9587	9657	9727	9797				0077	0147	
-09	7930217	0287	0356	0426	0496	0566	0636	0706	0776	0846	
6210	0916	0986	1050	1126	1106	1266	1336	1406	1475	1545	
11		1685						2105		2245	
12		2394							2874		
13		13093	3153				3433		3573	3613	
14	3712	3782	3852	3922	39 12				4272	4341	
15	4411			1621	1891		_		4970	_	
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3220	7904		8043						8462		
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24	7940696				_			1184	_	1324	
25	1394	1463							1952		
26	2091				2370						
27		2858			3058						
28	3486	3556							4044		
2)	4183	4253	1323	4392	4462	4532	4602	1671	4741	4811	
5230	4880	4950	5020	5000	5159	5229	5290	5368	5438	3508	
31		5647			5850	5926	5996	0005	6135	6205	
32	627.4		_						6832		
33	6971	7041	7111	7180	7250	7320	7389	7459	7529	7598	
34	7668	7738	7807	7877				5156		8235	
35	見以此名	8131	8504	8571	8043	8718	4780	3852	8922	8991	
56	9001								9618		
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41		2611	2681	2751	2520	PERS	28.39	3024	2704	9861	
42	_	3307		3440	3310	1000	1951	44.20	3194	1559	
43		4003	_							5255	
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49	8105	8175	N244	8314	8385	8453	3522	8592	5001	5731	5
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52		B		i l	9276				9563	9635		17
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<b>6</b> 9	1171	1243	1314	1386	1458	1529	1601	1672	1744	1815		
6070		1958	2030	2102	2173	2245	2316	2388	2459	2531		
71			2745	2817	2888	2960	3032	3103	3175	3246		,
72	1	3389			3601							
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74	_	ì	4	B	5034	1		1	5 <b>3</b> 20	1		
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76	6000	0249	7005	7107	6464	6535	6606	6678	0749	6821	<b>'</b>	
78					7178 7893			I.				
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83					1464							
84	1892	1963	2035	2106	2178	2249		2392	1			
85	2606	2677	2749	2820	2891	2963	3034	3105	3177	3248		
86	3319	3391			3005						1	
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89 		5531	5602	5074	5745	5816	5888	5359	6030	6102		
<b>60</b> :30		6244	6316	6387	6458	6529	6601	6672	6743	6815		! !
91	6886	6957	702.)	7100	7171	7242	7314					
<b>5</b> )2	1		A		7884			8038	1	. 1		71 1; 7
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	7993405	3474	3543		3681	3750	3819	3488	3157	4026		I
01	4093	_	_	_	4370		4508		4646			ı
02	_	4853		1991	5060	5129	5197	5266		5404		l
03	5473			5680	5749		5886 6575		6024			ı
04	6162	_	6300	_	6438	6500		6644		6782		H
05	6851	6920	6949	7058	7126	7195	7264	7333	7402	7471	•	ı
06	7540	7609			7815		7953	9022		8159		1
07		8297			8504		8641	8710		8848		I
08	8917	_	9055		9192	9261	9330		9468			Į
09	9605	9671	9743	_	9881		0018		0156	0225		l
8310	8000291				0569		0707	0775		0913		ı
-11		1051		1188	1257		1395	1463	1532	1601		ı
12		1739	1		1945		3083	2152	2220			i
15	2358		2495	2504	_	2702	_	2839	2908	-		ı
14	3046	3115	3183	3252	3321	3390	3438	3527	3596	3065		ł
1.5	3794	3802	3871	3940	4009		4146	4215	4284	4352		ı
16	4421	4490	4559	4627	4696			4903	4971	5040		ı
17	5109	5178	5246	5815	5384	5453		5590	5659	5727	1	H
18		5865	5984	6002			6209	6277	6346	0415	[	ı
19	6484	6552	0621	6690	6758	6827	0896	6965	7035	7102		ı
5320	7171	7299	7308	7377	7446	7514	7583	7652	7720	7789		ı
21		7927	7995	8064	8153	8201	8270	8339	<b>图 新 服</b>	_		ļ
22	8545	1	8682	8751	10.000	8888	8957	9026	9094	9163		ı
23	9232	1086	9369	9438	9507	9575	9644		9781	9850		ı
24	9919	9987	0056	0125	0193	0262	0331	0399	0468	0537		ı
25	8010005	0674	0743	0811	0880	0949	1017	1086	1155	1223		ı
26		1361	10.10	1498				1772		1910		1
27	1978		2116	1 .		2322		2159	2527	2596	ł	B
28	2665		2802		2939	3008			3211	3282	}	١
29	3351	34/20			3625	3694	3763	3831	3900	W. (6)		ŀ
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33	6095	1		_	6363	6438	_	6575	6649	0712	15	ı
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54	8030472	0540	0609		0745	0814	1	0951	1019	1097		4 48
55	1156	1224	1292		1129	1497	1560	1634	1702	1771		6-11
56		1907		2044		2181	2249	2317	2385	2454		7 48
57	2522			2727	2795			3000	3069	3137		8 35
58	3205	3274		3410	1	3547		3683	3752	3620		9 42
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81	8887	8956		9092				9364	9432	9500		
82	9568		9704		9840			0014	0112	0180		
83	8050248	0316	0385	0453	0521	0589	0657	0725	0793	0861		
84	0929	0997	1065	1133	1201	1269	1337	1405	1473	1541		
85	1609	1677	1745	1813	1881	1949	2017	2085	2153	2221		
86	2289	2357	2425	2493	2561	2629	2697	2765	2893	2001	68	
80	2969	3037	3105	3173	\$241	3309	3377	3445	3513	3581		
88	3649	3717	3785	3853	3921	3989	4057	4125	4193	1261		
89	4329	4397	4465	4533	4601;	4669	4737	4805	4873	4941		
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92		6436		6571		6707	6775	6843	d911	6979		68
93		7115		7251			7455	7523		7658		2 14
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95		8473	8541	MINOS		8745	8813	9881	8949	9017		4 27
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55		2343	2112	3176	3245	3314	4487	9159	3529	3502	1 1	642
56		3731	<b>.</b>	3870	3939	4000	4078	4147	4217	4286		7 49
57		4405			4653			4841				8 56 9 63
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61		7000	7260	7330	7408	7477	7547	7616	7685	7755	1	ł
62		7909	7069	8032	8101	8171	8240	8300	8379	8448		l
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64				1	1	1		B .		1	1	ł
65		9280	9349	9419	9488	0050	9027	9090	0450	0500		
66	9904	9973	0043	0112	0181	00.19	1019	1088	1151	1001		ł
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68		1339	0101	2101	2260	2320	2408	3788	2597	2606		ĺ
69	[					l I	7		l			
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71	1	3437	3507	1080	3645	3714	3/81	3833	3922	3991		•
72		4130	4199	1061	4337	5000	5162	5007	5407	5978		
73		4822	4891	5859	503() 5722	5701	5980	5030	5000	8069		ł
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75	6137	6207	6276	6345	6414	6483	6553	6622	0091	0760		1
76	1	6899	6968	7037	7106	7175	7245	7314	7383	7452		
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78					8490		0200	0397	0450	0507		l
79		8			1	11	l .		9	1		
6280	<b>9596</b>	9666	9735	9804	9873	9942	0011	0080	0150	0219		
81	7980298	0357	0426	0495	0565	0634	0703	0772	0841	0910		
82	_	1048	1118	1187	1256	1325	1394	1403	1032	1001		1
83				1878	1947	2010	2085	2134	2015	2084		
84		2431	l	a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	<b>263</b> 8	l I						1
85	3053	3122	3191	3260	3329	3398	3467	3536	3666	3075		İ
86	3744	3813	3882	3951	4020	4089	4158	4227	4296	4300		1
87	413.5	4501	4573	4642	4711	4780	4849	4918	4987	57.17		
88				5333	5402	5471	3340	3009	5078	6197		•
89	5816	5885	5954	6023	6092	0101		6299				
3290	6506	6575	6645	6714	6783	6852	6921	6990	7059	7128		İ
91	7197	7266	7335	7404	7473	7542	7611	7680	7749	7818		80
92	7887	7956	8025	8094	8163	8232	8301	8370	8439	8008		69 11 7
93	8577	8646	8715	8784	8853	8922	9891	9060	9129	9198		214
94		1		1	9543						69	321
95	9957	<b>T</b> 026	0095	0164	0233	0302	0371	0440	0509	0578		4 28
96	7990647	0716	0785	0854	0923	0992	1061	1130	1199	1268		535 641
97	1337	1406	1475	1544	1613	1682	17.51	1820	1889	1958		748
98					2302			2509	2578	2047		8 55
99	2716	2785	2854	2923	2992	3061	3130	3199	3268	3337		962
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32		50462	_	_		0728				0994			t
93	_	1127		1260		1392	1459	1525	1592	1658	1725		
34	2	1791	1858	1924	1991	2057	7124	2190	2257	2323	2389		1
35				2589				2855		2988			I
36						_	3453						
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48		1087	1153	1219	1286	1332	1418			1617	1684	ı	
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51		3142	<b>320</b> 9	3275		3407		3540				66
52		3805			4004	1		4203	1	•		213
53		4468		4600		4733		4866				3 20
54	5064	5131	5197	5203	5 <b>329</b>	5396		5528		1.		4 26
55		5793	-		5992	6058	l I	6191		6323		5 33
56		6456	1		6654	6721				6986	1	6 40 7 46
57		7118				l <b>B</b>		7515				8 53
58	_	7780			_	1 .		I		8310		9(59
59	8376	8443	8509	8575	8641	8707	8774	8840	8906	8972		
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61		9767			9965	0031	4 .	0164	8	l - 1		
62	8170 <b>3</b> 62					1		0826		1 1.		
63	1024	1090		1	~ _	1355	_	1487				
64	1686	1752	1818	1884	1950	2017	2083	2149	2215	2281		
65	2347	2413	2480	2546	2612	2678	2744	2810	2876	2943		
66	<b>3</b> 009	3075	3141	3207	3273	3339	3406	3472	3538	3604	1	
67		3736			3935	4001		4133				
68				N	•	4662						
69	4993	5059	5125	5191	5257	5323	5389	5455	5521	5588		
570	5654	5720	5786	5852	5918	5984	6050	6116	6182	6249		
71		6381	4		6579	6645	6711	6777	6843	6909		
72	6976	7042	7108	7174	7240	7306	7372	7438	7504	7570		Ĭ
73	7636	7702	7768	7835	7901	7967	8033	8099	8165	8231		İ
74	8297	8363	8429	8495	8561	8627	8693	8759	8825	8892		
75	8958	9024	9090	9156	9222	9288	9354	9420	9486	9552		
76					9882		1—			0212	4	
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78	0939	1005	1071	1137	1203	1269	1335	1401	1467	1533	66	1
79	1599	1665	1731	1797	1863	1929	1995	2061	2127	2193	00	ł
580	2250	2325	2391	2457	2523	2589	2655	2721	2787	2853	1	Į.
81	_	2985		6	3183	3249	l		4	3513		E .
82		3645			3843	_	L	4041	4107	4173		{
83	_	_		4436	4502	4568	4634	4700	4766	4832		į
84	4898	4964	5030	5096	5162	5228	5294	5360	5426	5492		1
85	5558	5624	5690	5756	5822	5888	5953	6019	6085	6151	l	I
86		6283		1	6481	6547		_		6811	l	
87	_				7140	12			1	7470	10	
88					7800	•		7997		8129		
89	8195	8261	8327	8393	8459	8525	8591	8656	8722	8788	1	
590	8854	8920	8986	9052	9118	9184	9250	9315	9381	9447	1	
91		9579				9843						
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93		0897		ľ		1160	1226	1292	1358	1424	1	21
94		1555			1753	1819				2082	1	32
95	2148	2214	2280	2348	2411	2477	2543	2609	2675	2741		4/2
96		2872	1			3136				1		53
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09	6578	6643	6707	6772	6837	6902	6966	7031	7096	7160		
<b>67</b> 10	7225	7290	7355	7419	7484	7540	7614	7678	7743	7808		
11	7872	7937	8002	8067	8131	8196	8261	8325	8390	8455		
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0312 0375 0301 0301 0301 0301 0375	11 .	3 18 4 24
	{	531
1000	30 1	6 37
0748 0809 0870 0932 0993 1054 1115 1170 1238 1299 1360 1421 1482 1544 1605 1666 1727 1788 1849 1911		7 43 8 49
1972 2033 2094 2155 2216 2278 2339 2400 2461 2522		9 55
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(128)				_	GAR	THE			N	710	
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7100	8512583	2645	2706	DOM A	2828	2889	2950	3012	3073	3134	Г
01	3195	3256	3317	3379	3440	3501	3562	3623	3684	3746	ı
02	3807	3868	3929	102-201	4051	4112	4174	A315	4296	4357	*
03	4418	4479	4540	4602	4663	4724	4785	4846	4907	4968	ш
04	5090	5091	5152	5213	5274	5335	5396	5457	5519	5580	
100	5641	5702	5769	5894	5885	5046	8008	6060	6130	6191	
06		_			6496			_			
07			_	,	7108		_			D-Collection of the last	ŀ
08				7657		_	_	_	_		
09						1			8574	DOMESTIC PROTECTION	
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7110		8757	_	_	8940		1		_		Ш
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14	1139	1200	1201	1322	1383	1444	1505	1560	1627	1086.	1
15	1749	1810	1871	1932	1993	2054	2115	2176	2237	2298	ij.
16	2359	2420	2481	2342	2604						li
17	2970	3031	5092		3214						ll.
18	3580	3641			3824		3 /40				1
19			4312	4973	4434	4495	4556	14017		1739	k
7120		_			5044	_	_			5349	ш
21				_	5651					J959	
					5204						
22		6081			6873						
23											
24	7239	_			7483		1 003	1000	1721	7786	l.
25		7910			8092					8397	
26	8458	8519	8580	8041	8702	8763	8824	, 8885	8946	9007	н
27	9068	9129	9189	9250	9311	9379	9433	9494	9355	9616	Ш
28				9500	9921	9989	2 0042	0108	0101	0225	Ш
29	8530286	0347	0408	0469	0530	0594	0652	0713	0775	0834	
7130	0805	0956	3 1015	1078	1139	1200	1261	1329	1385	1445	
31	4000			1687			1870			_	ш
32					2357				_	2661	23
33		2763	_		_		30H8		_		ш
34	-	3392		3 351	1	11	5 3690		_		ш
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35		4001	1 0 0 0	2 1129	1 4 1 10 10		4 4303				
86					4792	_	_		5033		- 1
37		5216			3400		552.				
38										2 6313	
39					0617					0921	
7140	6982									7.530	
41	7590	7651	7712	2 7771	7834	789	1 7955	TURE	3 4077	8159	1
42										5 37 36	
43	8807	8867	8921	8 89R	9050	911	0 9171	9232	2 9295	9534	5
44	9414	9475	9530	5 9507	9658	971	9770	9840	9901	1 9963	1
43	8540022	_	_		_	_	_		_		- 7
46			_	_	_		_	_	_	8 1177	
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48		_		_	_		_	_	_	2392	_
49	_	2514		2635						3000	
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N. 7	05 L.8	48		0	F NU	MÉE	RS.				(	127)
N. 1	0	1	2	3	4	5	6	17	8	9	D	Pro.
7050	8481891	1953	2014	2076	2138	2199	2261	2322	2384	2440		
51	!	2569	2630	2692	2754	2815	2877		3000	3061		62
<b>5</b> 2		3185	3246	3308	3369	3431	3493	3554	3616	3677		1 6
<b>5</b> 3	<b>373</b> 9	3800	3862	3924	3985	4047	4108	4170	4231	4203		2 12 3 19
54	4355	4416	1478	4539	4601	4662	4724	1786	4847	4909		4 25
<b>5</b> 5	4970	5032	5093	5155	5216	5278	5340	3401	5463	5524		531
<b>5</b> 6		5647	5709	5770	5832	5893	5955	6017	6078	6140		637 743
57	6201	6263	6324	6386	6447	6509	6570	6632	6093	6755		850
<b>5</b> 8	6917	6878	6940	7001	7063	7124	7186	72+7	7309	7370		9 56
59	7432	7493	7555	7616	7678	7739	7801	7862	7924	7985		
7060	8047	8109	8170	8232	8293	8355	8416	8478	8539	8601		
61	8662	8721	8785	8847	8908	8970	9031	9093	9154	9216		
62	9277	9339	9400	9462	9523	9585	9646	9708	9763	9831		
63	9892	9954	<b>0</b> 015	0077	0138	0199	0261	0322	0384	0145		
64	8490507	0.568	0630	0691	0753	0814	0876	<b>U937</b>	0999	1000		
65	1122	1183	1245	1306	1368	1429	1430	1552	1613	1675		}
66	1736	1798	1859	1921	1982	2044	2105	2167	2228	2239		
67	2351	2119	2471	2535	2597	2659	2720	2781	2843	2904		1 1
68	2965	3027	3088	3150	3211	3273	3334	3396	3457	3518		
69	<b>3</b> 580	3641	3703	3761	3826	3887	3948	4010	4071	4133		1
7070										4747		
71	4804	1370	4931	4003	5054	5115	5177	5238	5300	5361		} }
72	5423	5484	5515	5607	5658	5730	5791	5852	5914	5975		
73	6037	0098	6150	6221	0252	6344	6405	6466	0528	0589		1 1
74	6651	6712	6773	6835	6896	6958	7019	7080	7142	7203		1 1
75					,					7817	<b>!</b>	1 1
76	720 F 7878	70.40	8001	8062	5124	8185	8246	8308	8300	8431	<u> </u>	1
77	8400	3553	8615	8676	8737	8799	5860	8922	8983	9041		-
78	9106	9167	9228	9290	9351	9412	9474	9535	9596	9658	1	1
79	9719	9780	9542	9903	9965	<b>0</b> 026	0087	0149	0210	0271		1
7 <b>0</b> 80	8 <b>50</b> 0 <b>333</b>											
81	0046	1007	1060	1130	1191	1253	1314	1375	1437	1498	1	
8 2	1550	1691	1682	1713	1805	1800	1927	1988	2050	2111	}	1
<b>გ</b> 3	0170	9734	2235	2350	2418	1247:)	2540	12002	2003	2724		
81		2847	2908	2969	3031	3092	3153	3215	3276	3337		
85	3300	3.100	3521	3582	3644	5705	3766	3828	3889	3950	1	
86	4011	4073	4131	4195	1257	4518	4379	1440	<b>4502</b>	4563	!	
87	4694	1686	4747	4808	4869	1981	1992	5053	5115	5176	! :	1
88	5237	5298	5360	5421	5482	5543	5605	5000	5727	5788		
87	5850	5911	5972	6934	6095	6156	6217	6279	63 10	0401	i	
<b>O</b> !10	6460									7014		
91	707 t	7136	7107	7250	7320	7381	7++2	7504	7505	7026	! !	
92	7627	7749	7810	7871	7932	7993	9055	8116	8177	8238		61
93	8300	8361	8122	3183	8545	8600	8007	872ช	8783	8851		1 6
94		8973		9095	9157	9218	9279	9340	9402	9463		2 12 3 18
95						9830	'		B	1 1		4 24
	9524 8510136	9585		0320		0142	0503	0564	0626	0687		531
97	07101 <b>3</b> 0) 0740	0800	0230	0030		1054				1299		6 37
98		1421		1544				1788	1849	1911		7 43 8 49
99		2033		2155		2278	1	2400	2461	2522		9 55
	- J - 4					ا ــــــــــــــــــــــــــــــــــــ	l ———			. ———		· ——

128	)			LO	GAR	THM			N	.710	L	851
N.	0	1	2	3	4	5	6	7	8	9	D	Pro
100	85   2583	2645		2767	2826	2889	2950	3012	3073	3134		_
01	3195		3317		3440			- 1	3684	3746		
02	3807			3990				4255	4296	4957		2 12
03	4418		1 '		4663				4907	4968		3 19
04	5050	5091		5213				5457	5519	5580		4-25
Q5	5641	5702			5885					6191		637
06		0313			6496					6802		7 43
07		8924			7108					7413		8 50
08	7474	7535		7657	- 1	7780			7963 8574	8024		9 36
09		8146			9329			1		8635		
7110		8757			8940	3 1						
11		9368			9551 0162				9795 0406	9856		
12					0772					107B		
14	1139			1322	1383		1505	1		1688		
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15 16		1810	1871	1932		2054		2176 2787		2298		
17		3031		3153				3397		3519		
18		3641		1 - 1 - 1	3824	II .				4129		
19		4251			4454					4739		
7)20		4861			5044					5349	61	
21		5471			5654					5959		,
22		6081			5264					6568		
25		6690			6873		6995		7117			
24		7300		1	7483		7605		77 27	7788		
25		7910	1	8032	8092		H214			8397		
26		8519			8702			R885	,	9007		
27		9129			9311			9494				
28					9921	LI .	0042		0164			
20	8530286	0547	0408	0469	0550	0591	0632	0713	0775	0834		١.
7130		0950	7	1078	1139	1200	1261	1322	1383	1443		
31				1687			1	1931				
32		2174	2235	2296	2357	2516	2479	2540	2600	4		
<b>S</b> 5	2722	2783	2814	2905	2966	3027	3086	3148	3209	3270	ļ	
34	3331	3392	3455	3514	3575	3653	3696	3757	3818	3879	1	
35	3940	4001	4069	4122	4183	4214	4505	4366	4427	1488		
36	4546	4600	4670	4731	4792	4858	4914	4974	5035	5096		
57					5400			3589		5705		
38					6009					631\$		
39	6374	6435	6493	8556	0017	6071	6739	0800	6860	6921		
7140	6982	7045	7104	7165	7225	7286	7947			7530	H	
41		7651		7773	7834	789	7955	8016	8077	8138	1	
42		8259		8381	1			8624	]	8746		63
43		8867				9110						3
44		14		1	9638	11		1	9901	9962		3 18
43					0265		0987	0448	0509	0569		4 24
46		0691	1 .			13						637
47		1299		1		11 .	1605					7 43
48						2149		1	1			1 40
49	2453	2514	-	2635	-	2757			2939	3000		9 35
N.	0	1	8		4	5.	6	17	8	9	ID	Pb.

1	and the second	15 L.8	54			F N	UMBE	RS.	· · ·		_	(	129)
ı	N.	O	1	2	3	4	5	6	7	8	9	D	Pro.
ŀ	150	8543000	3121	3182	3243	3303	3364	3425	3486	3546	3607		
I	51	3568	3729	3789	1850	3911	3971	4032	4093	4154	4214		61
ı	52	4275		1	4157	4518	4579	4639	4700	4761	4822		1 6
1	53	4882	1	1	1	5125	5186	5247	5307		5429		319
	54	5 189		1	5671	5732	3793	5854	5914	5975	6036		4 24
١	55	6096			6278	6339	6400		6521	6582	6643		5 31 6 37
1	56	6703		6825	0885	6946	7007	7067	7128	7189	7249		7 43
1	57 58	7310 7917	1	7432 8038	7492 8099	7555 8160	7014 8220	7674 8281	7735	7796 8402	7850 8463		8 49
1	59	8524			8706	9766	8827	8888	0342	9009	9070	1 1	9155
1					9312	9373	0433				0070		
١	7160 61	9150 9757	9191	9252 9859	9919	9979		0101	9555	9615	0283		
ų,	62	8550949		0464	0525	0586		0707		0823			
-	63	0950		1	1131	1192		1313	1374	1135	1495		
1	64	1556	1	1077	1739	1798	1859			2041	2101	}	
ı	65	2162	2223	2283	2344	2101	2465	2526	2586	2647	2707		
1	66	2768		_	2950	3010		3132	1	3253	3313		
-1	67	3374	1	3495		3010	3677	3738	3798	3859	3919		
1	68	3980	4011	FIOT	4162	4222	4283	4343	4404	4465	4525	1	
1	69	4596	4616	1707	4708	4828	4889	4949	5010	5070	5131		.
/7	170	5192	5252	5313	5373	5434	5494	5555	5616	5676	5737		
Ł	71	5797	5858	5918	5979	6039	6100	6161	0221	6282	6342		
L	72	6403	0.403	6524	6584	6645	67 <b>0</b> d	6766	6827	6887	6948		
L	73	7008	7069	7129	7190	7250	7311	7372	7452	7493	7553		
L	74	7614	7674	7735	7795	7856	7910	7977	8037	8098	8159		
L	75	8219	8280	8340	1018	8461	8522	8582	8613	8703	8764		
L	76	8821	l	8945	9000	9066	9127	9187	9248	1_	9369		
l	77	9429			9611	9672	9732	9793	9853		9974		
F	78	8560015 0640	0095 0700	0156	0216	0277	0437 0942	0398	1063	1123	0579 1184		
١,	180						_						1
Г	18	1244	1305	1365	1426	1486 2091	1547 2152	1607 2212	1668	1728 2333	1789 2394		
Ł	82	1849 2454	1 - 1 - 7	1970 2575	2031	2696	2756	2817	2273	2938	CODA		
1	83	3059	3119	3180	3240	3301	3361	3421	3482	3542	3605		
1	84	3663		3784	38 15	3905		4026	4086	4147	4207		
ı	8.5	4268	4328	4589	4449	1509	4570	4630	4691	4751	4812		
1	85	4872	4933	4993	5059	5114	3174	5235	5295	5356	5416		
1	87	5476	5537	5597	5658	5718	5779	5839	5849	5960			
ŀ	81	6081	6141	6202	6262	6322	6383	6443	6504	6564	6624		1
	89	6685	6745	6806	6866	6926	6987	7047	7108	7168	7229		
7	190	7/28 )	7340	7110	7470	7531	7591	7651	7712	7772	7832		
	91	7893	7953	8014	8074	8134	8195	8255	8316	8576	8436		
	92	8497	- 1	8518	9678	8738	8799		8919	8980	9040		60
	93	9101	9161	9221	9282	9342		9463			9844		1 6
	94	9704	- 1	9825	9885	9946	0006		- 1	0187	0248		319
	- 1			- 1	0189	0549	0610			0791	0851		4 24
	96	0912	1	1032	1093	1153	1213		1334	1394	1455		5 30
	97	2118	1575	22 <b>5</b> 9	1090	1756	1817 2420		1937	TUUM!	2058		6 36 7 42
	98			!	2299   2903	2360		2480 3084	3144	3204	2661 3265		9 44
3	N.	[							!			<u> </u>	9 54
-	4.1	0 1	1 1	9	3 1	4	5	6	7 1	8	9 1	D	Pts.

(132) LOGARITHMS N.730 N.   0   1   2   3   4   5   6   7   8   9   1													
N.	0		2	3	4	5	6	7	8	9	1		
7300	8633229	3288	3348	3407	3407	3526	3586	3645	3705	5764			
01	3823	3883	3442	4002	4061	1121	4180	4440	4299	4850			
02	4415	4478	4537	1597	4650	4716	4775	4835	4894	4 154			
OS	5013	5072	5132	_	5271		5370			2548	ľ		
04	5604	5007	5727	5780	5845	3905	5964	6024	6083	0143			
05	6202	6262	6321	6381	6440	6499	6559	6618	6678	6737			
- 06	6797	6856	6916	6975	7034	7094	7153	7213	7272	7332			
07	7391	7451		7569	_	7688			7867				
	7985	8045		8164			8342	_	8401				
09	8580	8639	8698	8758	8817	8877	6930	8986	9055	9114			
7310	9174	9253		9352					9640				
11	9768	9427	9887	9946	0005	0005	0124	0184	0243	0302			
12	8640362			0540					0837				
13	0956			1134		1253		1371	1431	1490	H		
14	1550	1609	1008	1728	1787		1906	_	2025				
15	2143	2203	2282	2321	2381	2140	2500	2551	2518	2678			
16	2737	2796		2915		3034		3152		3271	ш		
17	3331	3390	3449	3509	3508	3627	3057	3746	4805	3865			
100	3924	3 183				4221			4390		1		
19	4517	4577	4636	4095	4755	4814	1873	1933	4803	5051			
7320	5111	5170	5229	5280	5348	5407	5467	5520	5583	5045			
21	5701	5763	5823	5882	5941	6001	6060	0119	6179	6238			
22	6297	6557	0+16	6175	6534	0594	6653	6714	6772	0831			
23	6890			7008			7246	7305	7365	7+24			
24	7483	7549	7602	7661	7721	7790	7839	7878	7958	NO17			
25	8076	8136	8195	8254	8313	8373	9432	8491	8551	8010	1		
26	8669	87.28	8788	8847	8900	8966	9025	9084	9143	9203	(		
27	9262	9321		_		9558		9677	9730	9795	1		
28	9855			0035				0269	0820	0388			
29	8650147	9506	0566	0625	0984	0749	0803	0862	0921	0980			
7330	1040	1099	1158	1217	1277	1536	1395	1454	1514	1573			
31	1632	1691	1751	1810	1869	1928	1988	2017	2106	2165			
32	2225	2294		2402	2461	2521	2580	2639	2098	9758			
33	2817	2876			_	3118	التقالية		3291	3350			
34	3 14)9	3408	35.27	3587	3040	3705	\$704	3824	3883	3942			
35	4001	4060	4120	4179	4238	4297	4956	4116	4475	4534			
36	4593	4652	4712	4771	4830	4889	4948	5008	5067	5126			
37		5244				2431		_	5039				
38	5777					6075		9131		6310			
39	6369	0428	6487	0546	6608	10003	6724	6783	0542	9901			
7340	6961	7020	7079	7138	7197	7256	7316	7375	7434	7493			
41		7611	_		_	7849			8025	6085			
42		8203						-	8617	8676			
45	8735	8794				9031		9149		9268			
44	9327	9386				9022		9741	9800	9859			
45	9918					0214			0391	0450			
46	8660509	0508	_	1				0923	0982	1041			
47	1100					1396			1573	1632			
48	1691	1751		1869		100000	2046		2164	2223			
N.	2282	2342	2401		2519		2637	2696	27.55	2814			
	0	1	2	3		5	6	7	8	196			

35 L. 86	66		O	FNU	MBE	RS.		_		(1	33)
0	1	2	3	4	5	6	7	8	9	D	Pro.
8662873	2932	2992	3051	3110	3169	3228	3287	3346	3405		
	3523		1	3701	l I	3819	3878	3937	3996		<b>5</b> 9
	4114		<b>8</b> .	4291	4350	4409	4468	4528	4587		116
	4705		4823	4882	4941	<i>5</i> 000	5059	5118	5177		2 12 3 18
5236			5413	5472	5532	5591	5650	5709	5768		4 24
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6417						6771	-		6949		635
	7067		7185		7303	7362	7421	7480	7539		741 847
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8188	8247	8306	8365	8424	8483	8542	8601	8660	8719		
	8837	8896	8955	9014	9073	9132	9191	9250	.9309	59	
9368			9545			9722	2				
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3670548			0725	4		0902	0961	1020	1079	1	
-	1197		1315	1374	1433	1492	1551	1610	1669	1	
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	2966			3142	3201		3319	3378	3437		
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134	)			L	DOAN	RTH	<b>48</b>		N	.740
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7400	8692317	2376	2435	2493	2552	2611	2669	27'28	2787	2845
01	2904	2963	3021	3080		\$197		3315	3373	3432
02	3491	3549	3608	3667			3843		3960	4019
ÚE	4077	4136	4195	4253	4312			4488	4547	4005
04	4504	4723	478l	4840				5075	5133	5192
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00	7010	7068			7244			7420	7479	7537
09	7596	7655	7713		7830		7948	8006	8065	8123
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11	8768	0418	0.401	8944	9588					9296 19881
12		9413	9471 0057				0202			0467
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14										
15	1112	1	1229	1287	1	1404		1522	1580	1639
16	1697	1756	1814			1990		2107	2166	2224
17	2285	2000	2400	2458	2517		1959 A		2751	2810
10	2808	2927	2985		3102	3161		3278	3337	3395
19	3454	3512	3571	3629	3088	3746		3863		3981
7420	4039	4098	4156	4215	4273	4332		4449	4507	4566
21	4624	4683	4741	4800	4858	1		5034	5092	5151
22		5268		5385	5444	T	5561			5736
23	5795	5953	3012		8029	6087	6146	6204	6263	6321
24	6380	6438	6197	0555	6614	6672	10731	6789	6848	6906
25	6965	7023	7082	7140	7199	7257	7316	7374	7432	7491
26	7549	7608	7666	7725	7783	7842	7900	7959	8017	8076
27	8134	8193	8251		8368	8427	8485		8602	
28	8719	8777	8836		8953	9011	1	9129	9187	9245
29	9304	9362	9421	9479	9537	9596	9654	9713	9771	9830
7430	9888	9947	0005	0.701			0239			0414
31	8710473	0531	0589	0648	0706	0765	0823	0882	0940	0999
32	1057	1115	1174	1232	1291	1349	1408		1524	1 .
33	1641	1700		1817	1875	1933	1992	2050		2167
34	2226	2284	2342	2401	2459	2518	2576	2634	2693	2751
35	2810	200	2927	2985	10.45	3102	3160	3219	3277	3335
36	3394	3452	3511	3569	REVSER	3686	3744	3803	3861	\$919
37	3978	4036	4095	4153	4211	4270	4328	4387	4445	4503
38	4562	4620	4079	4737	4795	4854	4912	4970		5087
39	5146	5204	5262	5321	5379	5437	5496	5554	5613	5671
7440	5729	5788	5846	5904	5963	6021	6080	6138	6196	6255
414	6313				6546			6722	6780	6838
42	6897	6955	7013		7130	il.	7247	7.05	7363	7422
13	7480	7539	7597	7655	7714	7772	7830	7883	7947	8005
144	8064	BEAN	8180	8239	8297	8355	8414	8472	8530	8589
4.5	8647	8705	8764		8880	8939	8997	9055	9114	9178
40		9289			9464					9755
47		9872			0047				0280	
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49	40441									

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51		3523	3582	3641	3701		3819	3878	3937	3996	•	59
52	4055	4114	4173		<b>42</b> 91	_	4409	1	4528	4587	1	1) 6 2 12
53		4705				H	5000	5059	5118	5177		3 18
54	5236	5295	5354	5413	5472	5 <b>5</b> 32	5591	5650	5709	5768		4 24
55	5827	5886			6063		6181		6299	6358	t	530 635
56	6417	6476			6653		6771		6889	6949		741
57	7008	7067			7244							847
58		7657			7834		7952	_		8129		9 53
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62	9958			0135	1		0312			0489	1	
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64	1138	1197		1315	1374		1492		1610		1	
65	1728	1786		1904		2		l i	2199	2258		
66		2376		2494	2553		1 1	2730		2848		
67	2907	2966	3025	3084	3142		3260			3437		
68	<b>3</b> 496	3555	3614	3673	3732	3791	3850	3909	3968	4027		
69	.4036	4145	4203	<b>4262</b>	4321	4380	4439	4498	4557	4616		
7370	4675	4734	4793	4852		4970			_	5205	1	
71	5264	5323	5382	5441		<b>55</b> 59				5794		
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73		65. 1		6619		6737				1		
74	7031	7090	7149	7208	7267	7326	7385	7441	7502	7561		
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81	1152	1211	1270	1329	1387	1446		1		1682		}
82			1858		1976	ľ	1	2152		2270		1
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85			3923		1	3799	4				ĺ	
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89	5857		5974		6092		6203	6268		i i		
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91			7150	1		7326				7561		58
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03		2407	2465	2,23		2639	2697	_		2870		I
101		2986	3044	3102		3218	3275	125.365	3391	3449		
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08	4080	4143	4201	425)	4317	4375	4433	4491	4548	A 160 EG		
07	4664	+722	4780	1838	4896	4953	5011	5069	5127	5185		12
08		5300	5358		5474	5532				5769		
08	5821	3879	5937	5995	6052	0110	6168	6226	6284	6342		ì
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19	1601	1659	1716	1774	_	1890	1947	2005	2063	2121		
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21	_	2814	2971	2929					_			
22	3333	3391	3449	3506	3564	3622	3680	3737	3795	BREE		
23		3968	4026		4142	1199		4315	4372	1430		
24	4488	1546	4603	1061	4719	4776	4834	4892	4950	5007		
25	5065	5123		5238	3290	5354	_	5469	5527	5584		
26		5700		5815				8046				
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31		9584		0276	8757 9334		9449		9564	9045		
33		9737	9795	9853	9910	9968		PERSONAL PROPERTY.	0141	0199	1 }	
34	8770250		0371	0429		0544			0717	0773		
35	0833	0890	0248	1005	1063	1121	1178	1230	1294	1351		
30		1467	1524			1697	1755	1812	1870	1928		
37	1985	2043	2100	215×	2216	2273	2331	2388	2446			ĺ
38	2561	2619	2677	2734		1	2907	2965	3022	3080		P
39	3137	3195	3253	3310	_		3483	3541	\$598	3656		
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43		5409	6132	_	5671		5787			5054		
44				_	MEET !	_	_	6420	6477	853.5		
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46	7109	7226		_	7974	7456	7513	7371 8144	7628	7586   8261 (		
49	8319			8492		8607		8722	8779	8837		
49		8952		_	9124	_	9239	9297	9351	9412		
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5 L.87	77		01	NU:	MBER	ls.			· · · · · · · · · · · · · · · · · · ·	(1	37)
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0620		1	0792	0850	0907	0965	1022	1080			1 6
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2919	2977	3034	3092	3149			3322	3379			635
3494	3552	<b>360</b> 9	3667	3724	3782	3839	3896	3954			741
4069		4184		4299	4356	4414	4471	4529			8 46 9 52
4643	4701	4758	4816	4873	4931	4988	5046	5103	5161		
<i>5</i> 218	5275	5333	5390	5448	5505	5563	5620	5678	5735		
5792	5850	5907	5965	6022		6137		î .			
6367	6424	6482	6539	6596	6654	6711					
6941	6998	7056	7113	7171			7343		7458		
7515	7573	7630	7687	7745	7802	7860	7917	7975		<b> </b>	
8089	8147	8204	8262	8319	8376	8434	8491	8549	8606		
8663	8721		88 <b>36</b>	8893	8950	9008	9065	9123		•	
9237	9295	9352	9410	9467			9639		9754	.	
9811	9869			0041	0098	0156	0213-	0270	0328		
1790385	0442	0500	0557	0615	0672	0729	0787	0844	0901		
0959	1016	1074	1131	1188	1246	1303	1360	1418	1475		
1532				1762	1819	1877	1934	1991	2049		1
2106		2221		2335	2393	2450	2508	2565	2622		
2680	2737	2794		2909	2966	3024	3081	3138			
<b>3</b> 253	_	3368		3482	3540	3597	3654	3712			
<b>3</b> 826	3884	3941	3008	4056			4228		l		
	4457		4572				4801				
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	6176			6348			6520		6635		
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1273				1502	1550	1617	1671	1791	1720		
1846	1903	1960	2017	2074				2303			İ
			· '	2647							1
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	4191		4306		4490	4477	3902 4534		<b>4077 464</b> 9	1	116
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			5449	i i			<b>S</b>	1	1	ļ	3 17
	5907						<b>5678</b>	2 (	5792	<b>,</b>	4 23
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600	8808136	8193	8250	8307	8364	8422	8479	8536	8593	8650	
01	8707			8879	8936	8993	9050	9107	9164	9222	
02	9279	9336	9393	9450	9507	9564	9621	9679	9736	9793	
03	9850	9907	9964	<b>0</b> 021	0078	1 1	0193		0307	0364	
1	3810421	0478	0535	0592	0650	0707	0764	0821	0878	0935	
05	0992	1049	1106	1163	1221	1278	1335	1392	1449	1506	
06	1563	1620	1677	1735	1792	1849	1906	1963	2020	2077	ľ
07	2134	2191	2248	2305	2363	2420	2477	2534	2591	2648	
08	2705	2762	2819	2876	2933	2990	3048		3162		
09	3276	3333	3390	3447	3504	3561	3618	3675	3732	3789	
610	3847	3904	3961	4018	4075	4132	4189	4246	4303	4360	
11	4417	4474	4531	4588	4645	4703	4760	4817	4874	4931	H
12	4988	5045	5102	5159	5216	5273	5330	5387		5501	
13	5558	5615	5672	5729	5786	5844	5901		6015	6072	
14	6129	6186	6243	6300	6357	6414	6471	6528	6585	6642	
15	6699	6756	6813	6870	6927	6984	7041	7098	7155	7212	
16			7383			7554	7611	7669	7726	7783	
17	_	7897			8068	8125	8182	8239	8296	8353	
18	8410	8467	8524	8581	8638	8695	8752		8866		
19	8980	9037	9094	9151	9208	9265	9322	9379	9436	9493	57
7620			9664			9835			_	0063	
1	8820120			0291	0348	0405					
22	0689	0745		_		0974			1145		;
23						1544		1658	1715	1772	
24						2114		2228	2285	2342	1
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26		•	3082	1			1	3367	3424	3481	
27		3594			3765	3822	3879	3936	3993	4050	
28		4164		4278	4335	4392	4448	4505	4562	4619	
29	4676	4733	4790	4847	4904	4961	5018	5075	5132	5188	
7630	5245	5302	5359	5416	5473	5530	5587	5644	5701	5758	
31	_	5871	_		6042	14	6156	6213	6270	6327	
32		6441		6554	6611	6668			6839		
33	6953	7010	7066	7123	7180	7237		7351		7465	
34	7522	7578	7635	7692	7749	7806	7863	7920	7977	8034	
35	8090	8147	8204	82 <b>6</b> l	8318	8375	8432	8489	8545	8602	}
36	8659	8716	8773	8830	8887	8944	9000	9057	9114	9171	
37	9228	9285	9342	9399	9455	9512	9569		9683	9740	ł
38	9797	9853	9910	9967	<b>0</b> 024	0081	0138			0308	
39	88 <b>3</b> 03 <b>6</b> 5	0422	0479	0536	0593	0649	0706	0763	0820	0977	
040	0934	0990	1047	1104	1161	1218	1275	1331	1388	1415	
41	1502	1559	1616	1673	1729	1786	1843			2014	
42	2070	2127		2241	2298	2354	2411		2525		
43		2695			2866	1	2980		3093		
44	3207	3264	3320	3377	3434	3491	3548	3604	3001	3718	
45	3775	3832	3889	3945	4002	4059	4116	4173	4229	4286	1 1
46			4457		4570	4627	4684	4741	1797	4854	
47	I		5024	1	5138	5195		5308		5422	li
48			5592		5706	5763			5933		
49	6047	6103	6100	6217	6274	6330	6387	6444	8501	6558	
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65 L.8	83		C	FN	UMBI	ERS.			,	(	(9)
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8836614	<u>6071</u>	6728	6785	6841	6898	6955	7012	7068	7125		
7182	7239	7296	7352	7409	7466	7523	7579	7636	7693		57
7750	<b>7806</b>	7863	7920	7977	8033	8090	8147	8204	8260		11 6
8317	8374	8431	8487	8544	8601	8658	8714	8771	8828		2 11 3 17
8885	8941	8998	9055	9112	9168	9225	9282	9338	9395		4 23
	9509				. '	9792		9906	9963		5 29
8840019			_		0303	1	0416	0473	0530		6 34 7 40
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1154				1380	1437	1494		1607	1664		9 51
1721	1777	1834	1891	1948	2004	<u> </u>	2118	2174	2231		
2288				2514		2628	_	1	2798		
, 2855			3025		3138	3195	3251	3308	3365	]	
3421			• -	3648	3705		1	3875	3932		
3988	l		-	4215	4272		4385	4442	4498		
<b>4</b> 555	4612	4668	4725	4782	4838	4895	4952	5008	5065		
5122	5178	5235	5292	5348	5405	•	5518		5631		
5688	5745	5801	5858	5915	5971		6085	L	6198		
6255	•	6368		6481	6538	I	6651	6708	6764	·	
6821	Y .	1	_		7104	1	•	7274	7331		
7387	7444	7.501	7557	7614	7671	7727	7784	7840	7897		
7954	8010	8067	8124	8180	8237	8293	8350	8407	8463		
8520	8576	8633	8690	8746			8916				]
9086	9143	9199	9256	9312	9369	9426	9482	9539	9595		
9652	9709	9765	9822	9878				0105			ŀ
3850218	0275	0331	0388	0444	0501	0557	0614	0671	0727		
0784	0840	0897	0954	1010	1067	1123	1180	1237	1293		Ì
				1576		1689	1746	1802	1859		
1915	1972	2029	2085	2142	2198	2255	2311	2368			
2481	2538	2594	2651	2707	2764	2820	2877				ł
3047	3103	3160	3216	3273	3329	3386	3443	3499	3556		
3612	3669	3725	3782	3838	3895	3951	4008	4065	4121		
4178	4234	4291	4347	4404	4460	4517	4573	4630	4686		
4743	4800	4856	4913	4969				5195			
<b>530</b> 8	5365	5421	5478	5534	i A	•	5704		5817		
5874	5930	5987	6043	6100	6156	6213	6269	6326	6382		
6439	6495	6552	6608	6665	6721	6778	6834	6891	6947		
	ľ	r :			7286		•		7512		
<b>756</b> 9	7625	7682	7738	7795	7851	7908	7964	8021	8077		
8134	8190	8247	8303	8360	8416		1				
8699	8755	8812	8868	8925	8981	9037	9094	9150	9207		
9263	9320	9376	9433	9489	9546	9602	9659	9715	9772		
9828	9885	9941	9998	0054	0110	0167	0223	0280	0336		
3860393								0844	0901		56
0957	1014	1070	1127	1183	1240	1296	i		1465		1 6 2 11
1522	1578	1635	1691	1748	1804	1860	1917	1973	2030		3 17
2086	2143	2199	2256	2312	2368	2425	2481	2538	2594		4 22
				2876	2933	2989	3046	3102	3158		5 28
3215	3271	3328	3384	3411	3497	· .	3610	3666	3723		6 34 7 39
- 1	3835			1	4061	4118	4174	4230	4287		8 45
4343	4400	4456	4512	4569	4625	4682	4738	4794	4851		9 50
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<u>(138</u>	)			I	.OGA	RITH				1.760		-
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7600	8808136	8193	8250	8307	8364	8422	8479	8536	8593	8650		I
01	8707	_	1	B .		8993		4	9164		]	
02		9336	1			9564		9679	9736	9793	•	١
03	-	9907	9			0136		0250	0307	0364	<u> </u>	ı
	8810421	i				0707				0935		ı
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05			ļ		1221			•		1 K		
06		1620			1792	1			2020			
07		2191				2420	1		È .	2648		1
08			l .	1 -		2990		3105		3219		1
09	3276	3333	3390	3447	3504	3561	3618	3675	3732	3789		1
7610	3847	3904	3961	4018	4075	4132	4189	4246	4303	4360		1
11		4474	ı .		4645	4703		4817	4874	4931		
12		5045		5159	5216	5273	5330	5387	5444	5501		
13		5615	<b>.</b>	3	5786		5901	5958		6072		
14	_	6186	1		6357	11	10	6528	6585	6642	]	
				1	6927	t	i .	7008	7155	7212		
15						7554	1		ă.	7783		ļ
16	7209	7520	7054	001	2080	8125				1 1	ĺ	
17	7840	7897	1934	0011	0000	0605	9750	9900	9966	2003		,
18	8410	8407	8324	0381	0030	8695	0132	0870	0426	0403	57	
19					•		9		I .	9493		
7620	9550	9607	9664	9721	9778	9835	9892	9949	0006	0063	1	
21	8820120	0177	0234	0291	0348	0405	0462	0519	0575	0632		
22	0689	0746	0803	0860	0917	0974	1031	1088	1145	1202		
2 <b>3</b>	1259	1316	1373	1430	1487	1544	1601	1658	1715	1772	}	
24	1829	1886	1943	2000	2057	2114	2171	2228		2342	1	
25		3	b	L .		2683			2854	2911		
2.5 26		2005	3080	3130	3106	3053	3310	3367	3424	3481		
20 27	2900	3504	3651	3708	3765	3899	3870	3936	3993	4050	ĺ	
	4107	4184	4001	4278	4225	4392	4448	4505	4562	4619	ĺ	
28	4676	4722	4700	4847	4004	4961	5018	5075	5132	5188	ŀ	
29	ľ		1	1		14	1	1		1 1	ļ	
7630			5359	5416	5473	5530	3387	6010	6070	5758	}	
31		5871	5928	5985	0042	6099	0150	6700	6900	6006	}	
32	6384	6441	0497	0554	0011	6668	0725	7011	7400	0890	}	
33	1	7010	7066	7123	7180	7237	7294	7000	7077		}	
34		E .				7806	B.			8034	]	
35	8090	8147	8204	8261	8318	8375	8432	8489	8545	8602	1	
36	<b>865</b> 9	8716	8773	8830	8887	8944	9000	9057	9114	9171		
37	9228	9285	9342	9399	9455	9512	9569	9626	9683	9740	}	
38	9797	9853	9910	9967	0024	0081	0138	0195	0251	0308		
30	8830365	0422	0479	0536	0593	0649	0706	0763	0820	0877		
7640					I (	11				1445		
	1 400	1550	1616	1679	1790	1786	1812	1900	1957	2014	1	1
41			2184			2354	II.	2168		2582		
42			2752			2923				3150		١
43		1	3320			3491	3548	3604	3661	3718		ļ
44						i i		l i			l	j
45			ľ			4059		4173		4286		ı
46	i		4457		4570	1	_	4741		4854		1
47	_		5024		1 1			1		5422		
48			5592		1	5763		5876		5990		
49	6047	6103	6100	6217	6274	0330	6387	6444	5501	6558		
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N.7	75 L.8	89		0	F NU	MBE	RS.				(	141)
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7750	8893017	3073	3129	3185	3241	3297	3353	3409	3465	3521		
51	3577	3633	3689	3745	3801	3858	3914		4026			56
52	4138	4194	4250	4306	4362	4418			4586			1 6 2 1 1
53	4698	4754	4810	_		•	5034					3 17
54	5258	5314	5370	5426	5482	5538	5594	5650	5706	5762	56	4 22
55	5818	5874	<i>5</i> 930	<i>5</i> 986	6042		6154		6266	1		5 28
56	6378		6490					6770			1	6 34 7 39
57	6938				7162	1		7330				8 45
<b>5</b> 8					7722			7890		_		9 50
59	8058	8113	8169	8225	8281	8337	8393	8449	8505	8561		
7760	8617	8673	8729	8785	8841	8897				9121		
61	9177	9233	9289	9345	9401		9513		9624			
62	9736	9792	9848		9960			0128		0240		
63	8900296		_	I	0520	l I	0632			0799		
64	0855	0911	0967	1023	1079	1135		1247	1303	1359		
65	1415	1471	1526	1582	1638	_				1918		
66	1974	2050	2086		2198	1	2309	2365		2477		
67	<b>253</b> 3	<b>2</b> 589	2645		2757		2869	2924		3036		
68	<b>30</b> 92	1				3372	3428	3484	3539		}	
69	<b>365</b> 1	3707	3763	3819	3875		1			4154		
7770	4210	4266	4322	4378	4434			4601		4713		
71	<b>476</b> 9		4881		4993			5160			1 1	
72	5328			5496		•		5719			1	
73	5887	_			6110		1 -	6278	_	6389		
74	6445	6501	6557	6613	6669	6725		6836		6948		
75	7004				7227	1		7395		7507		
76	7563				7786			7953		8065		
77	8121				8344			8512		8624		
78	8679			8847	1			9070				
79	9238				9461	ł	1			9740		
7780	9796	9852	9908	9963	<b>O</b> 019			0187		0298		
	8910354				0577			0745				
82					1135			1303		1415 1972		
83	1470			1638		-		1861 2419		2530		•
84	2028		1 1		2251		2363					
85	2586			1	2809	•	2921		3032	l l		
86	3144		3256		3367	_		3534 4092		3646 4204		
87 88	3702		1	3869	3925 4482	3981	4594		4706	4761		
89	4259		4371 4929				5152			5319		
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7790		_	_		0098 81 * *	5653 6211	RORR	8000	8270	6434		
91	5932 6480		6044			6768			6935			55
92 93	6489		6601 7158		7270				7493			116
94	7047 7604	7660	1			<b>.</b>	7938			8105		211
1 _		ł				•				8663		3 17 4 22
95 96	8161	8217	1	8328		) <b>)</b>		8551 9108		9220	1 1	5 28
97	8718		9387	8885 9442		i B		9665		9777		633
98	927 <i>5</i>	9331 9888			<b>0</b> 055	_				0334		7 39 8 44
99	89 <b>2</b> 0389			_	0612			1	0835			9 50
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Ol				1113		1221	1280	1336		1447	1 1	ŁO
00						1781	1837	1892	1948	2004	] [	56
02 03		2115 2672		2226 2783		2338 2894	2393 2950		2505 3061	2560 3117		1 <sub>1</sub> ( 2 <sub>1</sub> 1
03		3228				3451	3506		3618	3673	1	3,1;
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05		_		3896		4007	4063 4619		4174	<b>42</b> 30 <b>47</b> 86		CI SH E AX
06 07		4341 4897			4508 5064	5120	5176		4731 5287	5342		731
08			5509		5621		5732		5843	5899		944 950
09		_	6065		6177	6232	1 _	6314	6399	6455	{ }	3131
7810		:	6622		6733		6844	6900	6955	7011		
11		7122	_	~ ~	7289		7400			7567		
12				7789	7845		7956		8067	8123		
13		8234					8512			8678		
14		8790			8956	9	9068			9234		
15			9401		9512		9623	9679		9790		
16		9901		0012	0068		0179	0234	_			
17	8930401		•	0568	0623	0679		0790		_		
18					1179							
19			•		1734	1	•			2012	1	
7820	2068	2123	2179	2234	2290	2345	2401	2456	2512	2567		
21	i i			2789	\		1	3012			1	
22	1	3234			3400	1	•		3622	1		
23					3955				4177	4233	1 1	
24	4288	4344	4399	4455	4510	4566	4621	4677	4732	4788	1 1	t
25	4843	4899	4954	5010	5065	5121	5176	5232	5287	5343	l i	
26			B				5731	5787	5842	5898		
27	5953	6009	6064	6120	6175	6231	6286	6342	6397	6453		
28	6508	6564			6730	1	6841			7007	!	
29	7063	7118	7174	7229	7285	7340	7396	7451	7507	7562		
7830	7618	7673	7729	7784	7839		7950		1808	8117		
31		8228			8394		8505		8616	1		
32		8782			8949	7	9059		9170		1	
33	-	9337			9503		9614		9725		] [	ı
34	9836	9891	9947	0002	0057		0168		0279	0335		
35	8940390						0723		0833			
36			_	1111	1166	1221		_	1388	1		
37			_		1720	1	1831		1942	1	] [	
<b>3</b> 8				2219	2274	l I	2385		2496	I ŧ		
39		· '	'	2773	1	2884			3050			
7840		Z			3382			1		1 h	1 1	
41	\		3825		3936	3991	4047	_	4158			5
42		4324		4435	4490	4545				4767		
43 44		5431		4988 5542		5099 5653			5265 5819	5320 5874		2
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<b>45</b>		5985		6096		) <b>1</b>	6262		6372	6428		进
46 47		6538		6649	7258	1	6815		6926	1		4
48		1		7756			7922		7479 8033	7 <i>5</i> 35 8088		17
49		8199	i I		8365	7	8475		8586	8641		36735
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948697	8752	8807	8863	8918	8973	9028	9084	9139	9194	-	
9250	9305	9360	9416	9471	9526	9582		9692	9748		511
	9858	9914	9969	0024	0079	0135	0190	0245	0301		211
950350		0467	0522	0577		0688		0798	0854		3 17
0909	0964	1020	1075	1130	1185	1241	1296	1351	1407		4 22
1462	1517		1628	1683	1738	1794	1849	1904	1959		5 28 6 34
	2070		2181	2236	2291	2346		2457	2512		7 39
	2623	1	2733	2789		2899	2954				8 45
	3176	3231	3286	3341		3452	3507	3562	3618		9 50
3673	3728	3783	3839	3894		4004	4060	4115			
4225			4391	4446		4557	4612		4723		-
	4833		4944	1999	LL	5109	l	5220			
5330		5441	5496	5551		5662		5772			
5883		5993	6048	80104	6159	6214 6766	6822	6325	1		
6435	L	6545	6601	6656	6711				6932		
6987		7098		7208	7263	7319	7374	7429	7484		1
7539	1		7705	7760	7815	7871	7926 8478	1	8036		
8092		9202		8312	8919	8423	I	8533 9085			
8644	8699 19 <b>2</b> 51	8754 9306	1	8864 9416	9471	9527		9637	9692		
	1	-			'		1	L			
9747		9858		9968	0023	0078		0189	0244		
960299	0354	0961	1016	1072	1127	1182	1237	1292			
0851 1403		1513	1	1623	ill .	1733	1789	1844			
1954	0000	2064		2175	2230	4	2340	2395	2450		
		1	2671	2726	2781	2837	2892	2947	3002		Ì
2500	1	2616 3167	3222	3278	3333					1	
3057 3608			3774	3829	3884		3994	4050			1
4160	1		4325	4380	4435		4546	4601	4656		
4711		4821	4876	4931	4987		5	5152			
	5317	5372		5483		5593	5648	į,			1
5813		5923	5979	6034	6089	I	6199	6254			[
6364	0	6475	6530	6585		6695		6805	_		
6915		7025	7081	7136	7191	7246	7301	7356	7411		1
7466		7576	7631	7666	7742	7797	7852	7907	7962		
8017	8072	8127	8182	8237	6292	8347	8403	8458	8513		1
8568	1	8678		8788	8843	1	8953	9008	9063		
9118		9229	9284	9339	9394	9449	9504	9559	9614		
9669	9724	9779	9834	9889	9944	9999	0054	0109	0165		
9 <b>7022</b> 0	0275	0330	0385	0440	0495	0550	0605	0060	0715		
0770	0825	0880	0935	0990	1045	1100	1155	1210	1265		
	1375	1431	1486	1541	il .	1651	1706	1761	1816		
1871		1881	2036	2091		2201		2311			55
	2476	2531	2586	2641		2751	2806	1 -	1		211
2971	3026	3081	3136	3191	i	3301	3356		3466		3 17
3521	3576	3631	3686	3741		3851		3961		55	422
	4126	4181	4236	4291		4401			4566		5 20 6 33
4621	4676	4731	4786	4841		4951		5061	5116		7 39
5171		5281	5336	5391		5501	5556		5666		8 44
5721	5776	5831	5886	5941	5996		6106	6161	6216		9 50
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06	9568	9623	9678	9733	9788	9843	9838	9953	0008	0062		Ы
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11	2314	2369	2424	2479	2533	2588	2643	2698	2753	2308		
12	2863	2918	2973	3027	3052	3137	3192	3247	3302	3 357		
13	\$412	3467	3521	3576	3031	3686	3741	3796	3851	3900		è
14	3960	4015	4070	4125	4180	1235	4290	4345	4399	1454		
15	4509	4561	4619	4674	4729	4784	4838	1893	4948	5003		1
16		5113		5222		5332		5442				10
17	5606	5661		5771	5826	5881	3936	_	6045			1
18	6155		6265	6320	6374	6429	6484	6539	6594	6649		ń
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06	4156	4210	1264	4319	4373	4427	4481	4536	4590	1644		
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5409	5462	5515	5568	5621	5674	5728	5781	5834	5887		
5940	5993	6046	6099	6152	6206	6259	6312	6365	6418		
647 1	6524	6577	6630	6683	6737	6790	6843	6896	6949		
7002	7055	7108	7161	7214	7268	7521	7374	7427	7480		
7533	7586	7639	7692	7745	7798	7852	7905	7958	8011		
8064	8117	8170	8223	8276	8329	8382	8436	8439	8542		
<b>8595</b>	8648	8701	8754	8807	8860	8913	8966	9019	9072		
		9232					9497	9550	9003		
		9762			1		0028				1
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02	9198	9251	9304	9356	9402	9462	9515	9568	9621	9674		ı
03	9727	9780	9833	9886	9939	9492	0015	0098	0151	0204		ı
04	9140257	0300	0362	0115	0468	0521	0574	0627	0080	0733		l
05	0736	0839	0892	0945	0998	1050	1103	1156	1209	1262	•	l
-04	1315	1368	1421	1474	1527		1633		1738	التكافي		I
07	1644	1897		2003			2162		2208			l
08	2373	2426		_	_		2091	2744		2850		I
09	2903	2955	300R	3061	3114	3167	3220	3273	3326	3379		ı
3210	3432	3484	3537	_	3643		3749		3855	13191005 ·		ı
11	3961	4013		4119		1	4278		4384			l
12		1542	القشقا	4648			4807					ı
13	5018	5071		5177	5230		5335		5441			I
14	5517	5600	_	5706			5864	_	5970			
15	6076	6129	6181	6234	الناسانا		6393					
16	6601	6657	6710				6921			7080		l
17	7133	7186		7291	7344			7503				l
18	7661	7714	7767		7873		7978	فالنافات		8137		l
19	8190	8243	8295	8348	8401		8507				•	ı
B220		8771	8824	_	8930	3082				9194		ı
21		9299		9405		9511						ı
22	9775	9828	9880		9986	0039			0197			ı
	9130303	0856	0409	0989	0514		0020					ı
24	0831	0884	0937		1042	1095			1253	1306		ı
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27 28	2115	2408		2573 3101	3154		2732 3260		2837	2890	[	ı
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31	6109	0151	6214		6320		0125		6051			
95	6636	6680	_	6794	6847		0+52					
36	7163		7269		7371		7480	7005	7585	,		
37	7611	7743	7796	_	7902	7151		8000	3112	1		
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46	_	2486		_	_	2697	_			2907		
47		3013	3065		3171		3276			3434		
48	3187	3537	3392	>644	36,7	_	3202			3960		
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17		0379		0484	1		0642	0694		0799		
		0904			1002		1167	1220	1272	1325		
		1430		1535			1693	1745		1851		
	1903	1956	2008	2061		2166	2218	2271	2323	2376		
		2481		2586			2744	2796	2849	2901		
		3007		3112		3217	3269	3322				
		3532		3637		3742	3795	3847		3952		
		4057		4162		4267	4320	4372		4477		
	4530	4582	4635	4687	4740	4793	4845	4898				
	5055	5108	5160	5213	5265	5318	5370	5423	5475	5528		
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		3158		6263	6315	6368			6525	6578		
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	7680	7733	7785	7837	7890	7942	7995	8047	8100	8152		
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	8730	8782	8334	3387	8939	8992	9044	9097	9149	9202		
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	9779	9831	9884	9936	9989	0041	0094	0146	0188	0251	•	
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	3973	1026	1078	1131	4184	4235	4238	4340	4393	1445		
	41/7	4550	1602	1055	4707	4759	4812,	1864	\$917	F369		
	2031	5074	5123	5179	5231	5283	5330	5348	241	5193		
	3545	3538	5650	5702	5755	5807	5860	5712	5364	6017		
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12				7212		7317				75.20	
13	_	7630			7787	7839	7891		FREE		
14	8100	8152	8205	8257	8309	8361	8414	8466	8518	8570	
15	8628	9675	8727	8779	9831	8894	8336	9938	9040	9093	
16		9197		0301	_		_	9510	_		
17	9667	9719	9771	3524	9876	4928	9980	0033	0085	0137,	
18	9200189	0241	0204	0346	0398	0450	0203	0555	0607	0659	
19	0711	0763	0816	0368	0323	0972	1024	1077	11129	1141	1
8320	1233	1287	1399	1300	1142	1494	1546	1500	1651	1705	
21	1735	1807	1300	1912	1964	2016	20n8	2121	2173	2225	
22	2277	2529	2381	11433	2188	2534	2390	2842	2695	2747	
23		2851	2103	2955	3008	3000	3112	3164		3269	
24	3321	3579	8125	3477	3520	3582	3034	18630	3734	3790	
25	\$842	3843	3947	444)	1051	F103	1155	14208	4280	1512	
26	4364	4416	_	4521	4573	4025	4677	1729	1781	4833	
27		4938		5042	_		5199		550 ,	1	
28	5407	1	3511	3564	1 -		5720	_	5824		
29	5929			6083	6137		6241	6294	0340	1 .	
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51	5066	5119	5171	5224	5276	5329	5382	5434	5487	5540	
52	5592	5045	5697	5750	5803	5855	5908	5961	6013	6066	
53	6118	6171	6224	6276	6329	6382	6434	6487	6539	6592	
54	6645	6697	6750	6802	6855	6908	6960	7013	7066	7118	
<b>5</b> 5	7171	7223	7276	7329	7381	7431	7486	7539	7592	7644	
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66					3164		3269		3374		1
67	3479	3532	3584	3637	3690	3742	3795	3847	3900		1
68	4005	4057	4110	4162	4215	4267	4320	4372			
· <b>69</b>	4530	4582	4635	1687	1740	4793	4845	4898	<b>4</b> 9 <b>5</b> 0	5003	]
8270	5055	5108	5160	5213	5265	5318	5370	5423	5475	5528	
71	<b>5580</b>	5633	5685	5738	5790	5843	5895	5948	6000	6053	l
72	6105	3158	6210	6263	6315	6368	6420	6473	6525	6578	1
73						6893			7050	7103	
74		1	l .	1	7365		7470		7575	7628	
75	7680	7799	7785	7837	7800	7942	7995	8047	8100	8152	
76	8205	4257	8310	8362	8415	8467	8520		8025	1	
77	8730	8789	8834	8887	8930	8992	9044	9007	9149	1	1
78	9254	9307	0350	9412	9464	9517	9569	9037		9726	
79	9779	9831	9884	9936	9989	0041	0094	0146	0198		•
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94	7640	7633	7745	7797	7850	7902	7954	8007	8059	3112	
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02	3827	3878	3930	3982	4034	4085	4137	4189	4240	4292		ĺ
03	4344	+395	4447	4499	4550	4602	4654	4705	4757	4809		
04	4860	4912	4964	5015	5067	5119	5170	5222	5274	5326		
05	5377	5429	5481	5532	5584	5636	5687	5739	5791	5842		l
06	5894		5997	6049	6101		6204			6359		l
07	6410		6514	_		18	8	•	6824	6875		ĺ
08	6927	6979	7030	7082	7134	7185	7237	7289	7340	7392		١
09	7444	7495	7547	7598	<b>76</b> 50	7702	7753	7805	7857	7908		ľ
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43	4968	5()19		5122		( <b>A</b>		5328	-	5431	l	
44	5482	} I	5585		5688		5791	_	5894	5945	1	Ì
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46	6511		6614		6 <b>74</b> 0	_	6819	_		6974		
47			7128	_	7231					7488		
49		7590		7693	7745					8002		
49	8053	8105	8156	8207	8259	8310	3362	8413	8464	8516		١
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<b>3</b> 190	3242	3293	3344	3396	3447	3498	3550	3601	3652	ł	
3704	3755	3806	3858		3960						
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5243	5295	5346	5397	5449	4	5551		5654			<b> </b>
5757	5808	<b>585</b> 9	5910	5962	6013	0004	6116	6167	6218	1	
6270	6321	6372	6424	6475	P	6577	_				
6783	6834	6885	6937	6988	P			7193	1	1	
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8321	8373	8424	8475	8526	8578	8629	8680	8732	8783	1	
8834	8885			9039	_				9296	]	
93 47	9398	9449	9501	9552	9603	9654	9706	9757	9808		
9859	9911				0116						
1280372		0475		0577							
0885	0936	0987	1038	1090	1141	1192	1243	1295	1346		
1397	1448	1500	1551	1602	1653	1705	1756	1807	1858		
1909	1961	2012	2063	2114	2166	2217	2268	2319	2371		
2422	2473	2524	2576	2627		•		2832			
2934	<b>2</b> 98 <b>5</b>	3037		3139				3344			
3446	3498	3549	3600	3651	3702	3754	3805	3856	3907		
<b>3</b> 959	4010	4061	4112	4163	4215	4266	4317	4368	4419		
4471	4522	4573	4624	4675	4727	4778	4829	4880	4931		
<b>4</b> 983	5034	5085	5136	5187			1	5392	5443		
5495	5546	f .		5699			5853	<b>1</b>	5955	1	1
6007	6058	6109	6160	6211	6263	6314	6365	6416	6467		}
6518	6570	6621	6672	6723		2	6877	1			}
7030				7235	l .	_	1	7440			
7542		1	7696		1		P	7951			
	8105			8258		8361	l		8514		l i
<b>856</b> 5	8616	8668	8719	8770	8821	8872	8923	8975	9026		
9077	9128	9179	9230	9282	9333	9384	9435	9486	9537		
9588	9640	9691	9742	9793	1		1		<b>O</b> O49		
1290100		0202		0304	2		4		0560	1	51
0611	0662	0714	<b>y</b> 1	0816	1	•	0969		1071	]	1 5 2 10
1123	1174	1225	1276	1327	1378	1429	1480	1532	1583	<b>j</b> 1	3 15
1634	1685	1736	1787	1838	1889		1	•	2094	]	4 20
2145	_	2247	_	2350			2503		2605		5 26
2656	2707	2758		2861	2912			1	3116		6 31 7 36
3167	3218	3269	3321	3372		3474			3627		841
3678	3729	3780	3832	3883	3934		4036	4087	4138		9146
0	1	2	3	4	5	6	7	8	9	D	Pts.

(15	6)				JOG A	RITH	MS			N. 850	L	-
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06	المناسات ال	7305	7356	7407			_	7611		7713		
07		7815 8320		7917 8428	7969	8020				8224		
08		8836		8938			9091		3194			
8510				9 4 49	9500	9551	9602			9755		2
11		9857				1			0214			П
12			0418		0520	0571			0724			
13			0)28		1030	1081	1	1183		1285		3
11			1438	1489					1745	_	51	S
15		1878		2900 2510		_			2255			A.
16	2357 2866		2108	3010				2713		3325		P.
13			3478	3520	3580	3631		3733		3835		P
19	3880	3937	3983	4039	4090	4141	4192	4243	4294	4345		Į.
8520	4396	14471	4498	1547	4600	4651	4702	4753	4804	4855		
21		4957		5059					5313			1
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23 24	5925 6431	0455		6078	6633	6689			6333 6842	6893		Ш
25	6914	_		7097	7148		_	7300		7402		4
26		7504			7657		انتخاصا	_	7801	_		П
27	7963	8014	\$06 t	8115	8166		8268	8319	8370	8421		4
28	. 8472	_		8025	8676		_	8828	8879			4
29		9032	_	9134			_	_	9388			
8530		95 #1 0050	9572			_		9847 0350	0407	114.58		
31	9310508				0712		_		0916			H
33		1068		1170		1272		1374		1475		t
34	1526	1577	1028	1679	1730	1781	1832	1883	1933	1984		I
35	2085	2086			2230	22.10		2391		2493		5
36		2595			27.48		_	2900		3002	Ì	5
37		3012	31551 38631		3256		3358	34001	3968	4010		7
39	4070		1172		4274		4375			1528		2
8540	4579		1680		4792	1883	4884	4935	4986	5036		
41	_	5138	_			5341				. )		1
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43		6155 6			0307	6358				0502		
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45		7171 7 7680 7			7321	7375		7 476		7578 8086		
47		8189 8			5340		8442	_		8594		
45	8615	3096	747	8748	9848	8899		_		9102		
49	9153	9301	1255		9356		_	2500	560	1010		
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55 L.95	31		0	FNU	MBE	RS.				(	157)
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	9712		9814	9864	9915						
	0220		0321	0372	0423		1		0626		51
0677 1185		0778 1286	0829 1337	0880 1388	0931 14 <b>3</b> 9		1		1134 1642		1 5 2 10
1692	1743	1794	1845	1896	1946			2009	1		3 15
	2251	2302		2403	2454			2606			4 20 5 26
2708	2759		2860	2911	2962	1		3114	3165		631
3215	3256	3317	3 <b>3</b> 68	3418	3469	•	3571	3621	3672		7 36 8 41
. 3723	3774		3875	3926	3977	i .		4129	4180		9 46
4230	4281	4332	4382	i :	4484		4.58 <i>5</i>	4636	4687		
4738	_		1590	4941	4991			5144			į
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6259	6310		6412	6462	6006 6513		6614	6158	6716		
6767	6817	6868	6919	6969	7020		7122		7223	. 1	
7274			7426	7476	7.527			7679	7730	ı	-
7781	7831		7933	7983	8034		8136		8237		1
<b>82</b> 88	4338	8389	8440	3490	8541		8613	8693	8744		1
8795		8896	8947	8997	r :	9099		9200	9251	i	ł
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	_			1531	1075	1632				ļ	. [
1835		1936	1	2037		2139					}
2341		l	2493		1	2645	l	1	11		1
2848			3000	1		3152				i	- 1
3354	3405	3455	3506	3557	3607						- [
3860		i .	4012		4114						1
4367		1	4519		t l	4670		• • •	. (1	1	- 1
		li e	5025		5126				- 11	Ī	- 1
- · · · .		4	5531 6037		5632 6138	_	_	4	_ 11		
6391		l .	6543		6644					1	1
<b>6</b> 89 <b>7</b>		_	7049	7099		7201			(1	Ì	1
7403	7454	7504	7555	7605	7656	7707	7757	7808	7858	ł	1
· ·		1 _	8061		8162		- 1			1	-
8415	ı	B _	8 <i>56</i> 6		8668				1		
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9426		l	1		9679				9881		
					0184						1
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			2105	2156		2257					210
24.50	2500	2560	2610	l l	2711		2812		2914		3 15 4 20
2964				1	3217		3318	l <b>k</b>	_		5 25
3469	3520	3570		: •	3722	3772	3823	3873	. 4		630 735
3974		4075			4227		4328	4378			8 40
4479	4530	4580	4631	I	4732			4884		_	9145
0	• 1	2	3	4	5	6	7	8	. 9	$ \mathbf{D} $	Pts.

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(156	)			L	OGAF	RITH	45		1	V. 850	L	929
N.	0	1	2	3	4	5	6	7	8	9	1)	Pro.
8500	9294189	4240	4291	4343	4394	4415	4496	4547	4598	4649		
01	4700	4751	4802	4853	4905	4956	5007	5058	5109	5160		52
02	5211	5262	5313	5364	5415	5 <b>466</b>	5517	<b>556</b> 9	5620	5671	į	1 5
03	5722	5773	5824	5875	5926	5977	6028	6079	6130	i _ 1		2 10   3 16
04	6233	6284	6335	6386	6437	6488	6539	6590	6641	6692		421
05	6743	6794	6945	6896	6947	6998	7050	7101	7152	7203		5 26
06	7254		7356		7458	7509	7560	7611	7662	7713		631 736
07	7761	1	7866	•	7969	8020	8071	8122	8173	8224		8 42
08	8275	8326	8377	8428	8479	8530	8581	8632	968 <b>3</b>	8734		9 47
09	8785	8836	8887	8938	8989	9040	9091	9142	9194	9245		
8510	9296	9347	9398	9449	9500	9551	9602	9653	9701	9755		
11	9806	9857	9908		<b>0</b> 010	L .			0214			
12	9300316		0418		0520		0622	0673	0724	0775		
13	0826				1030	1081	1132	1183	1234	1285		1
14	1336	1387	1438	1489	1540	1591	1643	1694	1745	1796	51	
15	1847	1898	1940	2000	2051	2102	2153	2204	2255	2306		
16	2357	2408			2561		2663	1	2764	2815		1
17	2866	2917	2968	3019	3070	3121		3223	3274	3325		
18	3376				3580	3631	3682	3733	3784	3835		
19	3886	3937		4039	4090	4141	4192	4243	1294	4345		
	4396		4498	1	1	4651	1	l .	l	1		
8520	<b>4</b> 906		5008	•	I .	1			5313			
21 22	5415		5517		_				5823	I ~		
23	5925		6027				•		6333			
24	6434		6536		6638	1		6791	5 <u> </u>			
				7097	7148	7100	7950	7300	7351	7402		1
25	6914				7657			1	7861			
26 27	7963	1			8166		_		8370			
28	8472	i		• · · · · · · · · · · · · · · · · · · ·	8676			ŧ .	8879			
29	8981		•		9185		9287	8	9388	_		
1			1		9694		I .	}	9898	9949		
8530					0203				0407			•
31					0712				0916			
32 33	1017			1170					1425			
34	1526		1	1679		1781		1883				
1			ł	2188			2341			2493		
35				2697		l		_	2951			
36 37	3053	l		3205			3358	e e	3460			
38	3562	1	1	3714			_	ľ	3968			
39			1	1223	1				4477			
		1		4731				4935				
8540		5190	5190	504A	5291		5300	5419	5494			
41				5748					6002			
42				6257	i				6511			
43					6816			1	7019			
•		• •				7375	_		1		1	
45				7273	7920	7883	7021	7085	8035	8086	I	
46	7029 8137	2100	8020	8280		8391					l	
47	8645			8798	1	8899	8950	9001	9052	9102		
48 49		-		9306					9560			
	}							~	8	·;	7	
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362	0412	0402	0513	0563	0613		_
864	II -	0964	1015	1065	1115		50,
1366	H	1466	r . I	1567			I S
1868   2370		1968 2470	2018 2520	2069		1 1	2 10 3 15
		1	1	2570	2621	П	4 20
2871 3373	2922	2972	1022		1199		5 25 6 40
3 <i>313</i> 3875	3423 3925	3474 3975	3524 4025	3574 4075	3624 4126		7 35
4376	4427	4477	4527	4577	4627		8H0
1878		4978	5029	5079	5129		9 45
5380	5430	5480	5530	5580	5630		
188	5931	5981	6031	6082	6132		
382		0485	6533	6583	6633		1
34	6934	f	7034	7084	7134		
- 1	7435	7485	7535	7585	7636		
•	7020		8037	8087	8137		
	9437.		8538	8588			
	739	8989 9490	9039 9540	9089 9590			
	70	9991	0041	0001	0141		
		0492	0542	0592			
		992	1042	1093		1	
	.+3	1493	1543	1593		1	
J+1	1944	1994	2044	2094	2144	1	
2394	2445	2405	2545	2595	2045	1 1	
2895	2045	2995	3045	3095	3145		
3396	3446	3496	3546	3500	3646		'
3896	3946		1046				
4397	4447	4497	4547	4597			
4897	4947	<b>4007</b>	5047	5097	5147		
5397	5447	5497	5547	5598		ш	
5898 6398	5948	5998 6498		6098 6598		IJ	
5898	6448 6948		7048		7148		
7398	7448	7498	7548		7648		
7505	7948	) -	8048		8148	20	
3398	8448	8498	8548	8598	8648		
BB98			0048				
9398	9448	9498	9548				
898	9948	9998	0049	0098	0148		
0398	0448	0498	0548	0398	0648		
0897	0947	0997	1047	1097	1147		
1397	1447		1547	1597		ı	49
1897		1997	2046				2 10
2396		2496		2596			3 15
898	2946		3045	3095			4120
3395	3445		3545	3595			5 25 6 29
894	3944		4014	1004			734
1394 1893	4444	4494	4544	1593 5093			839
_	4943	1995	5043		5143	-	9 44
4	5	6	7	8 1	9	P	Pts.

1	(158	)			I	OGA	RITH	MS		N	. 860	) L.	ge
ı	N.	0	1	2	3	4	5	6	7	8	9	(D)	E
ı	8600	9344985	5035	5080	5136	5187	5237	5287	5338	5388	5439		
ı	01	5489		5590	56+1		5742	5792	5843		5914		
ı	02						5247						
ľ	03	_	6550 7054			6701 7206		7807			7458		
ı						_		_					
ı	05, 06,		7559 8064	7610 8114		8215	7761	8316	7862	7912	8408		t i
ı	07		_			8720		8921		8922			
ı	08		9073		9174			9325	_	9426			
ı	09	9527	9578	4628	9678	9721	9779	9930	9860	9931	7981	1	E
ı	8010	9350032	0082	0132	0193	0233	0284	0334	0385	0435	EVARES .		1
ı	11	0536	0586	0037	0637	0738	0788	0838	0889	0939	0990.		
	12	1040	1091	1141	1191	1242	1292	1343				1	4
•	13			1645	1696	1746		1847		1948			P
ı	14				_		2301				_		1
ı	15					2754		2855		2956	_		4
ı	16	3057	3107		3208				3410				
ı	17 18	3561 4065	3611		3712 1216	_	_	3563 4867	4418	3964 4468			5
ı	19	4569			1720	4770	_	487 L		1972	انتسانت		
•	_		5123						_	5476	_		
•	8620 21			5173	5224	5778		5879		5979			
ı	22		6131	6181	6231	6282				6483			
•	23		6034		6735	_				6287			1
ı	24	7087	7138	7188	7239	7289	7539		7440	7490	7541		I.
ľ	25	7591	7641	7692	7742	7792	7843	7893	7943	7994	8044		,
ľ	26	8095	8145	8195	8246	8296	6346	8397	8447	8497	8549		1
ı	27	8598			8749	5799	\$850	8900					
ı	28	9101		9202	9252	9303	0353			9504			
ı	29	9605		9705	_	9806		9907	_	_	_		
•		9360108			0259	_	_	0410					
ı	31	0611				0812				1014			U
•	32 33	1114 1617		1718	1265 1768		1869			2020			
•	31	2120	_	2221	2271	2322	2372			2523			
	35	2623		2724	2774	_	2875			3026	_		1
ľ	56	3126			3277	3327	9378			3529			7
	37	3629		3730			3881		3981	4031	4082		-
	38	4132	4132	4233	42H3	4333	4383		_	4534	4584		1
	59	4635		4735				773 316	4987	5037	5087		14
	8640	5197	5188	5238	5288	5338	5389			5540			1
	41					5841		59+2					1
•	42	_					6394						14
	43	6645 7148	7		7298	684b		6947		7047			
J	44												1
	45 服器	7650	7700 8203	7750		7851	7901 8403	7951		8052			1
	47	8655		8755			1	8956					
	48	9157		_		T .	4	9458		3559			
	49	9659				9860		9960		0061	0111		
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5 L.9	37			OF N	UMBI	IRS.				(	159)
0	1	2	3	4	5	6	7	8	9	D	Pro-
370161	0211	0261	0312	0362	0412	0402	0513	0563	0613		
0663	0713	0764	0814	0664		0964		1065	1115		50,
1165				1560	II	1466		1567			210
1667 2169		1767 2269	1818 2319	1868 2370	1918 2420	1968 2470	2018 2520	2069 2570	2119 2521		3 15
2671	2121	2771	2821	2871	2922	2972	3022	3072	3122		5 25
3172		3273	3323	3373	3423	3474	3524	3574	3624		6 30 7 35
3674	3724	3775	3825	3875	3925	3975	4025	4075	4126		8 40
	4226 4729	4276 4778	4326 4828	4376 4878	4427 4928	4477 4978	4527 5028	4577 5079	4627 5129		9 45
5170	5229	5279	5329	5380	5430	5480	5530	5580	5630		
5680	5731	5781	5831	5881	5931	5981	6031	6082		1 1	
6182	6232	6282		6382		6183	6593	6583			
6683	,6733	6783	6834	6884		6984	7034		7194		
7184		7285	7335	7385	i	7465	7535	7585	7630		
7686		7786		7886		7986	8037	8087	8137		
8187	1			8587		8488	8538	8588 9089	8638		
	8738			8888 19 <b>3</b> 89		8969 9490	9540	9590	9139		
	9239 9740	9289 9790		9890	9941		- 1	0091	0141	1	
	1		0341	0391	0441		0542		DOWN		
80191	0241	0291		0892		0992	1 - 1	1093	1143	1	
1193		1293	1343	1393	1443	1493	1543	1593	1643		
1693		1794	1844	1894	1944	1994	2044	2094	2144		
2194	2244	2294	2344	2394	2445	2495	2545	2595	2043		
2695	2745	2795	2845	2895	2945	2995	3045	3095	3145		
	3245	3296	3346	3396	3446	5496					
	3746		3846	3896	3946		4046				
4196	4247	1297	4347	4397 4897	4447	4497 4997	4547 5047	4597	4647		
	4747	4797	ELW		4947			5097	5147		
	5217	5297	5347 5848	5397 5898	5447	5497 5998	5547	5598 6098	5648 6148		
	5748 6248	5798 6298	6348	6398	6448	2404	6548		50.41		
	6748		6848	6898	6948	6998		7098	7148		
	7248	7298	7348	7398	7448	7498	7548	7598	7648	50	
7698		7798	7848	7893	7948	7998	8048	6098	8148	150	
	82+8	8298	8348	8398	8448	E498	8548		10095		
	8748	8796	8848	8898		8998	BSA-65	9098	9148		
9198		9298	9348	9398		9498					
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56	2718	2762	2807	2851	2896	2940	2985	3030	3074	3119		6 27
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<b>6</b> 8	8057	8101	8145	8190	8234	8279	8323	8368	8412	8457		
69	8501	8546	8590	8634	8679	8723	8768	8812	8857	8901		
9770	8946	8990	9035	9079	9123	9168	9212	9257	9301	9346		
71					9568	9612	9657	9701	9746			٠
72	9835	9879	9923	9968	<b>0</b> 012	0057						
73		0323	0368	0412	04.57	0501		0590				
74	0723	0768	0812	0857	0901	0946	0990	1034	1079	1123		
75	1168	1212	1257	1301	1345			1479		1568		
76	1612	1656	1701	1745	1790			1923		2012		
77	-	2101	2145	2189	2234			2367		2456		
78					2678	1 _	2767		2856			
79	2944	2989	3033	3078	3122	3167	3211	3255	3300			
9780	<b>33</b> 89	3433	3477	3522	<b>3</b> 566	3611	3655	3699				
81	3833	3877				4055	• -			4232		
82	4277	4321	4365	4410	4454	4499				4676		
83	4721	4765	= • = •		4898	T I	i e	5031		5120		
84	5164	<b>520</b> 9	525 <b>3</b>	5298	5342	5386	5431	5475		5564		
85	5608	5653	5697	5741	5786	5830		5919	1	6008		
86	6052		6141			6274	_			6452	1	
87	_	1	_		6673	6718		6806		6895		
88					7117	7161	Y .	7250				
89	7383				7561	I		7694		7783	H	
9790	7827	7871	7916	7960	8004	8049	8093	8137				•
91	8271	8315	8359	1	8448	8492		8581	I	8670	i T	
92		8758				8936	1			9113		44
93	9158	9202		9291	9335	9379	9424	9468	l	9557		2 9
94	9601	9645	9690	9734	9778	9823	9867	9911	1	0000	17	313
95	9910044	0089	0133	0177	0222	0266	0310	0355	1	0443		4 18
96	0488		0576	1		0709	ľ	3	Z	0897	146	5 22
97	0931	0975	_		1108	1153	_	1241	<b>†</b>	1330	48	626 731
98	1374	1419			1552	1596	l s		1729	1773	1	835
99	1818	1862	1906	1951	1995	2039		2128	2172	2216	H	9 40
N.	0	1	2	3	4	5	6	7	8	19	D	Pts.

(182)					OGA	RITH				.980	1
N.	_0_		2	5	4	5	6	7	8	9 1	D
9800	9912261	2305	2349	2394	2158	2182	2527	2571	2015	2000	ì
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02	3147	_		3280		3369	3413		3501	3546	
HEE!		3934		3723		3812	3850		3944	3089	
04		4077		4166	1210	4255	1299	1313	4387	4152	
05		4520		_		1697	17 12		4830		
06		_	5007		5096	5140	5185		5273	5317	
07				5495				5672		5760	
		5849		5937		6026		6115	6159		
081		6292	_	6380			6513			6040	
9810	6690	6734	6779		6867	6911		7000		7088	
11		7177	7221		7310	7354			7487		
12		7620	_	7708		7797		7885	7929		
13		8062			8195	6239			8372		
14	8461	3505	8549		8638			8770	8815	H85)	
15	8903	8947	8 192	9036	9080	9124			9257		
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18	9920230	_			0 107				0584		
19	0673	0717	0761	0805	0850	0594	0 138	0982	1026	1071	н
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21	1557	1091	1646	1690	1734	1778				1955	
22	1999	2011	2038	2132	2176		2285		2353	2397	
23		2486		2574	1		2707				
24	2884	2928	2972	3016	3060.	3105	3149	3193	3237	3281	
25	3326	3370	3414	345R	3502	3547	3591	3635	3679	3729	į .
26		3812			3944		4033	1077	4121	+165	
27					4380		4475	1519	4563	4607	ш
28			4740				4917	4961		5049	
29	5093	5138	5182	5226	5270	5314	5358	5 103	5147	5491	
9850	5535	5579	5624	5668	5712	5756	5800	5844	5889	5933	
51	5977	0021	PARKET	6109	6154	6198	6212	6286	6330	6375	1
32	6419	6463	0507	6551	6595				6772		
33			6949		7037	7081	7125		4	7258	
54	7302	7546	7390	7435	7479	7523	7567	7611	7655	7699	
35	7744	7788	7832	7876	7920	7964	8009	8033	8037	8141	ļ,
38	8185	8229	8274	8318	5362	8106	8450	8494	_	5583	
57	8627	8671	6715	87 9	3803					0024	
38	_	9112		_	9245		1		_	9495	
39	9510	9554	ยรูล	9342	1098	9730	9774	9819	9863	19907	ı
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41	9930392	0430	0481	0525	0569	0013	0637	0701			
42	0834	0878	0922	0960	1010	1054	1098			1221	
45	1275	1319	1303	1407	1451	1495					ш
44	1716	1760	1804	1848	1893	1937	1981	2025	2069	2113	
45	2157	2201	2245	2290	2354	2378	2422	2466	2510	2554	
46	2598	2042	2687	273)	2775	2819	2863	2000	2951	2915	
47.					3216		3304	3348	3392	3436	
48	_		_	_	3657		,	3789			
49	3921	3965	4010	4054	MINISTR	4142	4186	1230	4274	4314	
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985	L.9	93		O	F Nt	JMBE	RS.				(	183)
	0	1	2	3	4	5	6	7	8	9	D	Pro.
993	14362	4 106	4450	4495	4539	4583	4627	4671	4715	4759		
	4803	4847	4891	4935			5068	5112	5156	5200		44
	5244	<i>5</i> 288	5332	5376	5420	5 164	5509	5553	5597	5641		114
	<b>56</b> 85	5729	5773	5817	5861	5005	5949	5993	6037	6082		2 9 3 13
	6126	6170	6214	6258	<b>6302</b>	6346	6390	6434	6478	6522		418
	6566	6610	6654	6698	6743	6787	6831	6875	6919	6963		5 22
	7007	7051	7095	7139		•	I .	7315		7404		626
	7449	7492	7536	7580	7624	7668	7712	7756	7800	7844		731 835
	7888	7932	7976	8020	8064	8109	8152	8197	8241	8285		940
	8329	8373	8417	8461	8505	8549	8593	8637	8681	8725		
	8769	8813	8857	8901	8945	8989	9033	9077	9122	9166		
	9210		'	9342	1		9474					
	9650			9782			9914					
994	0090	0134	0178	0222	0266	0310	0355	0399	0443	0487	1	
	0531	0575	0619	0663	0707	0751	0795	0839	0883	0927		
	0971	1015	1059	1103	1147	1191	1235	1279	1323	1367		
	1411	1455	3	1543	1587			1719		1807		
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(184	)			LC	GAR	ITHM	S		ľ	1.990	L. 9
N.	0	1	2	3	4	5	6	7	8	9	DE
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01			0878 7317			7010		7098			
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12		2095	2120		2226		2314		1963 2402		11
14	2489	2533		2621		2708				1	1
15		2971			3102		3190		3278		
16			3453					,			1 1
17		3847			3978		1066				
18	4241	1285	4329	4372	4410	44.0	1504	4548	4531	13635	
19	4679	47.3	4706	4810	4854	4898	4942	1985	5029	5073	
9920	5117	5161	5204	5248	5292	5336	5379	5123	5407	5511	. 7
21			5642								
22	5992	6036	6680	#124	6107	6211	6255	6299	634_	6350	
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25 26			7393 7830	_			7568 8005		7655		
27		_	8268				8443				
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29	9055		9143	_	_	_	9318		9403		
9930	9492	9536	9580	9624	9667	9711	9755	9799.	9842	9846	
31			0017				0192				1
	9970367	0411	0455	0498	0542	0580	0629				2
53			0892	_			1067		1154		1
54	1242		1329	_	_		1504		1591		
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36			2203	_	_	2331			2443		1
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39			3514			3045		3733		-	3
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41			4385								
42	4738	4784	4825	4869	4912	4950	5000	5013	5087	5131	
43	5174	5218	5262	5305	5349	5393	5436	5480	5524	5507	100
44	5611		5699							6004	
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15 L.99	97		01	F NU	MBE	RS.				()	185)
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1978231	8274	8318	8362	8405	8449	8493		8580			
8667		8755		8842				9016	1	ļ	44
-	9147			9278	9322			9 <b>453</b> 98 <b>8</b> 9			1 4 2 9
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980413			0980			1111		<b>I</b>	1241	1	6 26
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1721		1808		1	1939			2070			8 35 9 40
2157	2201	2245	2288	2332	2375	2419	2463	<b>2506</b>	2550		
2593	2637	2681	2724	<b>276</b> 8	2811	2855			2986		
			3160				9	1	3422		
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3901	1	1	4032			4163		4230 4686	4294 4729	·	
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3046	3089	3133	3176	3220	3263	3307	<b>335</b> 0	3394	3437		
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7828	7871	7915	7958	8002	8045	8089	8132	8176	8219		4 17
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9566	9609	9653		9739		9826		9913	9957		9 39
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(186*	')			L	OGAR	LITHE	48		N.	1000	L.0	000
N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
10000	00000000	0434	0869	1303	1737	2171	2606	3040	3474			
01	4949	4777	5211	5645	6080	6514		7382	7817	8251	435	435
02	8685	9119	9553	9988	<b>Ū</b> 422	08.56	1290	172+	2159	2593		1 44 2 87
03	00013027	3461	3895	4329	4764	5198			6500	, ,		3 131
04		7802	8237	8671	9105	9539	9973	0407	0841	1275		4 174
05	00021709	2143	2577	3012	3446	3880	4314	4748		5616		5 2 1 8 6 2 6 1
06	6050	6484	6918	7352	7786	8220	8654	t .		9956		7 305
	00030390	0824	1258	1692	2126	2560		1		4296		8 348
08	4730	5164	5598	6031	6465	6899		1	8201	8635		9 392
09	9069	9503	9937	0371	0805	1238	1672	2106	l	2974		
10010	00043408	3842			5143	5577	1	5	_	7312		
11	7746	8130	8614	9048	9481	9915			1217	1650		'
12	00052084	2518	2952	3385	3819	4253	I			5988		
13	6422		7289	7723	8157	8590		1 .		<b>0</b> 325		
14		1192	i	1	2493	2927	1	1	<b>422</b> 8	4662		
15	5095	<b>5</b> 529	5963	6396	6830	7264			I .	8998	]	
16	9432	9865	<b>0</b> 299	0732	1166	1600	2033	F -	1	3334		
	00073767	4201	4634	5068		5935				7669		i
18	8103	8536	8970	9403	9837	δ270	0701	1137	1571	2004		
19	00082438	2871	3305	3738	4172	4605	5038	5472	5905	0339		
10020	6772	7206	7639	8072	8 <i>5</i> 06	8939	9373	9806	<b>Ö</b> 239	0673		
21	00001108	1540	1973	2406	2840	3273	3706	4140	4573	2000		
22	5440	5873	6307	6740	7173	7606	8040	8473	8906	9340	434	434
23	9773	<b>0206</b>	0640	1073	1506	1939	2373	2806	3239	3073		1 43
24	00104106	4539	4972	5406	5839	6272				ł I		2 87
25	8438	8871	9305	9738	<b>D171</b>	0604	1037	1471	1904	2337		3 130 4 174
26	00119770	3203	3636	4070	4503	4936	5 <b>36</b> 9	5802	<b>623</b> 5	6668		5 217
07	7101	7535	7968	8401	8834	9267	9700	0133	0566	0999		6 260
<b>2</b> 8	00121433	1866	2299	2732	3165	3598	4031	4404	4897	0860	ļ.	7 304 8 347
29				•		7928			9227	1		9 391
10030	00130093	0526	0959	1392	1825	2258	2691	3124	3557			
. 31	4423	4856	5289	5722	6155	0588	7021	7454	7887	8319		
32	87 <i>5</i> 2	9185	9618	0051	0484	0917	1350	1783		2648		1
	00143081	3514	3947	4380	4813	0574	7078	0111	9	6977 1305		
34						9574			1	t ,		
35	00151738	2170	2603	3036	3469	3902	4334	4767	3200	2033		
36	6065	6498	0931	7363	7790	8229	0002	9094	9027	9960		
	00160392	0825	1258	1090	6450	6000	7912	7740	2120	2619		
38	4719	0152	10011	7940	0776	1208	1641	2074	2508	2939		
39									1	1	Í	
10040	00173371	3804	4236	4009	5102	0050	10907   大one	0399	115~	1500		
41	7697	8129	8562	8994	9750	9839 4104	ARIA	5040	5401	1589 5014		433
	00182022	2454	2887	3319 7844	2122	#10# 8500	8041	0270	9806	7914	433	11 43
43		0779	1211	1044	2400	8508 2849	3965		1	4562	1 1	2 87
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45	4994	5426	5859	0291	0723	7156	1/388	0020	0453	2000		5 217
46	9317	9750	0182	4007	LU+7	1479	1911	4343 6668		3208		6 2 <b>6</b> 0 7 303
	00203640	4072	4505	4937	080 i	<b>5</b> 124	0234	0000	1400	1950		7 303
48	7963 00212285	0395	2140	9239 9501	4.U14	1111	4878	5310	5740	6174		8 346 8 390
49								77			$\overline{\mathbf{D}}$	
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10050	00216606	7038	7470	7903	8335	8767	9199	9631	0063	0495		
51	00220927	1359	1791	2224	2656	3088	3520	3952	4384	4816	432	432
52	5248	5680	0112	6544	6976		7840		8704	9136		1 43 2 86
53	9568	0000	0432		1296	1728			3024	3456		3 130
54	00233888	4320	4752	5184	5616	6048	6480	6912	7344	7776		4 173
35	8207	8639	9071	9503	9935	0367	0799	1231	1663	2095		5 216
	00242526	2958	3390	3822	4254		5118	_	-44	6413		6 259 7 302
57	6845	7277	7709	8140	8572		9436			0731		9 346
58	00251163	1595	2027	2458	2890		3754			5040		9 389
59	5481	5913	6344	6776	7208	7639	8071	8503	8935	9366		
10060	9798	0230	0661	1093	1525	1957	2388	2820	3252	3683		
61	00264115	4547	4978	5410	5842		6705	7136	7568	8000		
62	8431	8863	9295	9726	0158	0589	1021	1453	1884	2316		
63	00272747	3179	3610	4042	4474		5337	_	6200	6631		
64	7063	7494	7926	8357	8789	9220	9652	0083	0515	0946		
65	00281378	1809	2211	2672	3104	3535	3967	4398	4830	5261		
66	5693	6124	6555	6987	7418	7850	8281	8713.	9144	9575		. 1
67	00290007	0439	0870	1301	1732	2164		3027	3458	3889		
68	4321	4752	5189	5615	6046	6477		7340	7771	8203		4
69	8634	9065	9497	9928	0359	0791	1222	1653	2084	2516		1
מלחחו	00302947	3378	3810	4241	4672	5103	5535	5966	6397	<b>6828</b>		
71	7260	7691	8122	8553	8984	9416	9847	0278	0700	1141	431	451
72	00311572	2003	2434	2865	3296	3728	4159	4590	5021	5452		1 43 2 86
73	5883	6315	67 16	7177	7608	8039	8470	8901	9332	9764		3 129
74	00320195	0626	1057	1488	1919	2350	2781	3212	3643	4074		4 172
75	4505	1937	5368	5799	6230	6661	7092	7523	7954	8385		6259
76		9247	9678	0109	0540	0971	1402	1833	2264	2695		7 302
77	00333126	3557		4419	4850	5231	5712	6143	6574	7004		8 345
78	7435	7866	8297	9728	9159	9590			0883	1314		9 388
79	00341745	2175	2606	3037	3468	3899	4330	4761	5192	5622		
10080	6053	6484	6915	7346	7777	8207	8638	9069	9500	9931		
81	00350361	0792	1223	1654	2085	2515			3808	4239		
82	4669	5100	5531	5962	6392	0823	7254	7685	8115	8546		
100	8977	9407	9838	0269	0700		1561	1992	2422	2853		
84	00363284	3714	4145	4576	5006	5437	5868	6298	0729	7160		
85	7590	8021	8452	8882	9313	9743	0174	0605	1035	1466		
86	00371896	2327	2758	3188	3619	10.0	4480		534I	5772		
177	6202	6633	7063	:	7924		8785		9646	0077		
88	00380507	0938	1368	1799	2229	2660		3521	3951	4382		
89		5243	5673	6104	6534	6964	7395		8256	8686		
10090	9117	9547	9977	<b>0408</b>	0838				2560	2990		
91	00393421	<b>3</b> 851		4712	5142				6864	7294	430	480
92	7724	8155	8585	9015	9445			0736		1597		430 1:43
93	00402027	2458		3318	3748			5039		5900 0202		2 86
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95	00410632	1063		1923			3213		4074	4504		4 172 5 215
96	4934	5364			6655			7945		8808		6 258
97	9236		0096		0956				2676	9107		7 301
98	00423537	3967	4597	4827	5257		<u></u>	6547	6977	7407		8 344
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32	5161	5589		6444	6872	7300	7728	8155	558	9011		3 43
53	9439	9866	0294	0722	1150	1577	2005		2860	3288		3 12
54		4144	4571		5427	5854	6282		7137	7565		4 17
55	7993	8420	THAN		9703	0131	0559	0020	1414	1842		6 25
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63	00702193	2620			3902	4329	4756	5184		6038		
64	6466	6893	7320	7747	8175	8602	9029	9457	OFER	0311		
65	00710738	1166	1593	2020	2447	2874	3302	3729	4156	4583		
66	5011	_	5865			1	7574	8001	8428	8855		
67	9282	9710		0564		1418	1845	2272	2700	3127		
	00723554	3981		4895		5689	6116	6543	6971	7398		
69	7825	8252	8679	9106	9533	9960	0387	0814	1241	1668		
170	00732095	2522	2949	3376	3803	ESHIOL	4657	5084	5511	5938		
71	6365		7219	7646	8073	8500	8927	9554	9781	0208		
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73		5331	5758		6612	7039	7466	7893	8320	8740		1 4 8
74			0027	0454	0881	1308	1734	2161	2588	3015		3 12
-	00753442	3869	4295		5149	5576	6003		6856	7283		4 17
76		8137	8563	8990			0270			1551		5 21 6 25
77 78	00761977 6245	2404	2831	3258		4111	4538	4965	5391	5918		7 29
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82	00783309	3736	9897 4162	0323 4589	5015	1177 5442	1603 3869		2456 8721	286 <b>3</b> 7148		
83	7574	8001	8427		9280	9707	0133		0986	1413		
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85	6103	6530	6956		7809	8235	8562	HONE	9514	9941	١,	
86	00800367	0794	1220	1646		2499	1003	3352	3778	4204		,
87	4631	5057	5483	5910	6336		7188		8041	8467		ŀ
88	8894	9320	9746	0172	0599	1025	1451	1877	2304	2730		
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190	7418	7845	8271	8697	9125	9549	9976	0402	ODGH	1254		-
91	00821680	2106	2532	2959	3385					5515		
92		6368		7220	7646				9350		425	425
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28	9072	9497	9921	0346	0770	1195	1620	2045	2469	2894		
29	00983318	3743	4167	4592	2016	5441	5865	6290	0714	7139		
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41	01034237	4661	5085	5500	5933	6357	6781	7205	7629	8033		
42	8477		9325	9749	0173	0597	1021	1445	1869	000 a	424	e i
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44	6957	7381	7805	8229	8053	9077	9501	9925	บี348	0772		のの事事
45	01051196	1620	2014	2469	2892	3316						CE
46	5435	5859	6283	6707		7555						
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49	8149	8573	8997			<u>0</u> 268	6	1116				all PL
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. 52	01080860	1284		2131		2978			4249	4673		1 42 2 85
53				6367		7214		B.	1	8908		3 127
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67	4956	4770	5202	5625	6048	6471		ľ	<b>B</b>	8163		
68	8586	9009	9432	9855	0278					2393		
69	01152815	3238	3661	4084	4507	4930	5353	5776	6199	6622		
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71	01161273	1696	2119	2542	2964	3387	3810	4233	4655	5078	422	422
72	5501	5924	6347	6770	7192	7615	8038	8461	8883	9306		1 42 2 84
. 73	0720	<b>0</b> 152	0574	0997	1420	1843	2265	2688	3111	3534		,
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77	6636	7059	7481	7904	8326	8749	9171	9594	0016	0439		7 295 8 338
78	01190861	1284	1706	2129	2552	2975	3397	3820	4242	4665		9 380
79					6777					8889		
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81	01203536	3959	4381	4804	5226	5648	6070	6493	6915	7338		
82	<b>776</b> 0	8183	8605	9027	9449	9372	0294	0717	1139	1562		
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34		7260	7686	8100	8527	8947	9367	9787	0208			
35	01451048	THE REAL PROPERTY.	1889	2300	2729	3140	3569	Statuto	_	4890		
36	The state of the s	THE REAL PROPERTY.	6090		0931		7771		8611			
37			0292	0712	1132	1552	1972	2393	2813			ı
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39	7854	8274	8 9 9 8	9114	9534	9954	0374	0794	1214	1034		
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41	6254	6674	7 24 5	7514	7934	8354	8774	9193	9613	-		1
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44	BELL	9271	9691	Q111	0530	0950	1370	1790	2210	2630		
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46	7247	Annual Contract of	8087	\$120CH	8926	9346	9766	<b>D186</b>	0605	1025		
47	01481445	_	_	2711	_	3544	-		4803	5222		
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52								4 .		6202		1 42 2 84
53			7460				9138			0397		3 126
54				2074			3333	1		1 1		4 168
55			5849			7107		7946				5 209 6 251
56						1301		2140				7 293
	01523398					1	<b>5913</b>	• .				8 335
58 59	7591 01 <b>53</b> 1783	2203					4299	I	5137			9 377
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10360		_					8491 2682			9748 <b>394</b> 0		
62							687.3		7712			
63		Y Company			_	1	1064					
64	01552740						5255		6093	1	•	
65				1		ł	9445	l l	<b>0</b> 283		1	
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67				_			7823	, ,	•			
68										3269		
69	01573688	4106	4525	4944	5363	5782	6200	6619	7038	7457		
10370										1645	1	
	01582063											418
72							8763					1 42
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74							7136			8392		4 167
75	8811	9229	9 <b>64</b> 8	<b>ბ</b> 066	0485	0903	1322	1741	2159	2578		5 209
	01602996								6345	6763		6251 7293
77	7182	7600	8019	8437	8856	9274	9693	<b>D111</b>				8 334
78	01611367			_					_	5133		9 376
79	5551	5970	6388	6806	7225	7643	8062	8480	8899	9317		
10380							2246	1				
81	01623919								1			
82							0612		_	1867		
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84							8977			0232	1	
85					1			1		4414		
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87	9013 01 <b>653</b> 194									2776		
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91 92	l i				. I	B 1	8242 2421		9078 <b>32</b> 57		4.4	417
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94				,		1_	0778	1	1614		1	2 83
ł	01682449			_	1 1				5792			3 125 4 167
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97	01690804		•	1	1		3311		4146			6 250
98			5817	,			7487	1		8740		7 2 <b>92</b> 8 <b>334</b>
99	_	9575					1663	2081	2499			9375
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194	)			L	OGAR	HTI	48		N.	1040	0 سا	170
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0400	01703334	3752	1169	4587	5004		5839		6675	7092		
01	7510		8345			9597					418	413
02	01711685			2937		н		4607				1 4
03	5860		6695	7112	7530	7947	8365			9617		3 12
04	01720034			1287	1704	2121	2539		3374	1 1		416
05			5043		5878	II .	6713		7547	7965		6.25
06					0052			1304 5477	1.	,		7 29
07 08	01732556			3807	8397	4642 8815		9849	_	1		9 33
	01740901	1318	1735			2987	3404		4238			3,31
0410			5907		0742	7159						
11			0079					2165				
	01753416		4250		5084	5501	5919	6336	6753	7170		
13		8004	8421	6838		9872	0089	0506	0923	1340		
14	01761757	2174	2591	3008	34/25	ll .		4676				
15	5927	6344	6761	7178	7595			8846				
16	01770097				1765	2182	2599	3016				
17	4260	4683	5100		5934		6768	1	7602			1
18		8652			0103		0936		1770			l
19	01782604	3021	3437	3854	4271	4688	5105		5938			
0420	4. 4. 4. 44	7189	7606		8430	8856			0106			417
21	01790940							3857		4690	117	11.4
22 23		0690		6357 0524		7190 1357		2100	2607	8857 3024		2 8
	01803440		4274		5107	5523		6357				3 12 4 16
25		i			9273		0106			1356		5:40
20	01811772				3438		4271		5104			6 25
27					7603			8853				7 29
28			0935	1352	1768	2185	2001	3017	3494	3850		DE7
29	4267	4083	5100	5516	5932	6349	6765	7182	7598	8014		_
0430	8431	8847	9264	9680	0096	0513	0929	1345	1762	2178		
31	01832505	3011	3427	3844	4260	4676		5509				
32		7174		8007	1	8839		9672				
	01840921				2586		1	3834		1 . 1		
34		5499	5916		1	7164		7997	1	8829		
35		9662			0910				2575			
36	01833407	7981			5072 9233	4	_	0481		7152		
371 38	7308. 01861729	1		2977	3393		-	4642		- 1	Ì	
39					7554			8802				
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41					3873			7121				
42					J033					2112	416	410
	01882528					4607	5023	5439	5855	6270		11 4
41	6035	7102	7518	7954	8350	8765	9181	9597	0015	0429		3 12
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40				6249						8744		6330
47		7		0407				2069		11		7/29
46 40	01903310			4503 8720	1	5395 9551		0226		7057		6 33
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10430	01911629	2045	2460	2976	3291	9707	1122	4538	1954	5309		417
51	5785	6200	6616	7031	7 147	7862	8278 2433	8694 2849	9109 3264	9525 3680	\$15	415 21 41
52		0956 4510	0771 4926	1187 5341	1602 5757	2018 6172			7419	7834		2 83
53 54	8250	8665	9720			0327			1573	1 188		3 124 4 160
55	01932404		3235	3650	4065	4481	4896	5311	5727	6142		5 207
50	6557	1		780 ¥	8219	8034			9880	0296		7,290
57	01940711	1126	1541	1957		2787	3203		4035	4149		H, 132
58	4864	5279	5694	0109 0262	6525 0677	1092	7355 1508	7770 1923	8196 2338	8601   2753		9 57 1
59	9016	9432	9847	-			5659		6490	6905		
10160		3581 7735	3999 8150	4414 8566	4829 8081	5244 9396			0641			
	7320 01961472		2302			3547			4792	5208		
	5623	6038	6455	6868			9113	8528	8945	9358		
64	9773	0188	0605	1018	1433	1848	2263	2678	3093	3508		
65	01973923	4358	4753				6413	6828	7243	7658		
66	8073		8903			0148			1393	1807 5957		
67	01982222	2637	3052 7 <b>20</b> 1	3467 7610		4297 8446	4712 8861	5127 9275	5542 9690	0105		
68	0371 01990520	6786 0935	1350			2594	3009	3424	3838	4253		
10470	4668	5083	5498			6742	7157	7572	7987	8401		1
71	8816		9645	0060		0890			2134	2519	414	414
	02002963	-	3793	4207	4622	5097	5452		6281	6696		tj 41
73		7525	7910	8354		9184			0428	0842		3 124
74	02011257	1672	2086	2501	2916	3330		4159	4574	4989		4,166
75	5403		6232	6647	- 1	7476		6305 2451	8720 2865	9135 3280		31207 61248
76		9964	0378 4523	0793 4938		1 <b>622</b> 5767			7010			7 290
77 78	02023694 7839	4109 8254	8668	90BS			<b>0326</b>		1155	1570		9 373
79	02031984	2399	2813	3227	3642	4056	4471	4885	5299	5714		
10480	6128	6543	6957	7372	7786	8200	8615	9029	9444	9858		
81	02040272	0687	1101		1930	2344	- 1	3173	3597	1001		
82	4416	1830	5244	5658	_	6487	6901 1 1044	7316 1458	7730 1873	8144 2287	ļ	
83	8559 02052701	8973 3116	9387 9530	9801 3944	0216 4358	0630 4772		5601	6015	6429	1	ł
84				8086		8915	9320	9743	0157	0571		
85 86	6843 02060985	7258	7672 1814	2228		3056			4299	4713		
87	5127	5541	5955	6369		7197	7612	8026	8440	885+	1	
88	9268		<b>0</b> 096	0510	0924	1338	1752		2581	2995		
89	02073409	3823	4237	#651	5065	5479	5893	6307	6721	7135	1	
0490	7549			8791			0035		1080	1275		
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92 93			6656 0795		1623	2037			3278	3692	713	11 41
			4934			.1	6589	7003	7417	7831		2 83 1 124
95			9072		]	0315		1141	1555			41165
96	02102382	2796	3210	3624	4037				5092			5 206
97	6520	6934	7347	7761	8175		9002	9416	9829	1		7 289
	02110657	1071		1898		2725	3139 7275	3553 7689	3906 8103	4380 8516		9 37 2
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10500	02118930	9344	9757	0171	0584	0998	1412	1825	2239	2652		
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11		4817	_		6056			7296				Ш
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14		7210	_		8450	_		9589				Į,
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16		5471		6297			7535	,		8774		П
17			0013					2078	1			Ш
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25	0222210		1	3448						5924		
26			7162					9225	_	_		b
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28		5000		5825				7475		8300		
29		9125	_	9950	_	1		1500	_			
0530	02242837	3250	3662	4074	4487			5721				
31			7786		1	_	_	9848				ш
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33		5621		6445				8095		18919		ш
34		_	0156	_		1393	1805	2217	2030	3042	ш	ш
	02263454	3866	4279	4691	5103	5515	5927	6340	0752	7164		ш
36					9225		_	0462				ш
	0227 1046		,					4583		1		К
38			6644				_	8701		9528		Ш
39			0765	1		_		2825		30-10		Ш
10540	02284061	4473	4885	5297	5709	6121	6593	6945	7357	7769		К
41	_	_	9005		1	0241	_		_			1
	02292301					1	•			0000	412	ų
43	_		_		8068	_	_	9304				
44	02300540	_		1775		2599				4247		1
45			5482				7130	7541	7953	8365		Ju
46					0424			1659				j.
	0231289>				_			5777				í.
4×		7 123			8059			9894				1
40	02321127	1541	1953	2364	2776	3188	3598	4011	4423	4834		2
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مواسيه.		الاسمسية.		·				<del></del>	_ <del>^</del>			
-	55 L02	32		0	F NU	MBE	R8.		المعاولية المستوالية		(1	97*)
N.	0	1	2	3	4	5	6.	7	8	9	D	Pro.
0550	02325246						7716		8539	8951		
51	9362	9774				1420	1	2244			411	411
	02333478		4301		1 1		_	-		7182		1 41 2 82
53	7594 02341709				9240 3 <b>3</b> 55		1			1298		3 123
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55	5824		· .		7470			8704		9527		5 205 6 247
56 57	9938 0 <b>2354</b> 052	<b>0350</b>	•	1	r 1	1995		2818		3641 7755		7 288
<i>5</i> 8	8166		8989			_	<b>.</b>	1045	1			8 329
	02362279				3924			5158		5981		91370
05 <b>6</b> 0	6392				1 5		8859	_		<b>0</b> 093		
	02370504			•	1 1	1		3383	_			
62	4616							7495				
63	8728		9550					1606		1		
64	02382839		3661		4484			5717		6539		
65	6950	7361	7772	8183	8594	9005	9416	9828	<b>0</b> 230	0650		
	02391061	1			2705	•	3527		1	4760		
67	5171				6815	7226	7637	8048	8459	8870		
68						1335	1746	2157	<b>2568</b>	2979		
69	02403390	3801	4212	4623	5033	5444	5855	6266	6677	7088		
10570	7499	7910	8321	8731	9142	9553	9964	<b>0</b> 375	0786	1196		
	02411607					3662	4072	4483	<b>4</b> 894	5305		
72						7769					410	410
73		I .	· .		1466			2699				1 41
	02423931		1	ł	5573	1	i i	6806		1		2 82
75						0091	N .					3 123
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77 78	0250	•	1		7893					9946		6 246
79		4872	1		- 1			3230 7335		81 <i>5</i> 6		7 287 8 328
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0580	8567 02452671				0209 4313			1440		6365	j	
82			1		8417				_	0303	1	i i
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84	Y	_		1	6624					8676	Í	
85		<b>1</b>		l_	0727	3		a l		2779		
	02473189		1				5651	_	_	6881		
87			1		8932		•			0933	ł	
	02481393									5085	1	
89	5495	5905	6315	6725	7135			8366			1	
0590	9596	<b>5</b> 006	0416	0826	1236	1647	2057	2467	2877	3287		
	02493697		4517				6157	D .	_	7387	1	
92	7797	1			9437	_		0667	1	1487	409	409
93	02501897	1	•		3537	<b>4</b> I		4767		5587		1 41
94	5997	6407	0817	7227	7637	8047	8457	8866	9276	9686	[	2 82 3 123
95	02510096							2965				4 164
96	4195				5835	1 —		7064			ł	5 204
97	8293				9933			1162			1	6 245 7 286
98	02522392			B 1		1				6080		8 327
99	6489	0888			8128	5038		9357	9707	0177		9 368
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N.	0	1	2	3	4	1 5	6	7	8	9	1)	Phi
10600	02530587	0.996	1406	1816	2225	2635	3045	3451	3864	4271		
- 01					9355				7961		110	485
02		_			0119							ijĢ.
_	02542870				_				5153			13:11
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06		_	-to-		6800							
07	02563351		1		0895		1714 5808	1 .				818
09					9083	1	8901			_		
	02571538			_	3176							
11					7269							1
12			,		1361							
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14		_			9545				1182			
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16		_		•	7727		1			9773		
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18		1		1	5908							
19	8362	8771	9180	9589	9998	0407	0816	1225	1634	2043		- 4
10620	02612452	2861	3270	9679	4088	4496	4905	5314	5723	RIGO		
21										0221	409	40
	02620630	_			_					_		n'e
23	4718	5127	5536.	5943	6353	6762	7171	7580	7989	83 /7		2 6
24	8806	9215	9624	0033	0441	0850	1259	1068	2077	2485		3
25	02632891	3503	3712	4120	4529	4938	5346	5755	0164	6573		
26					8616		_					68
27	02641068	1477	1896	2294	2703	3112	3520	1924	4337	4746		75
28		_			6789		_		8424			95
29	9241	9649	0058	0467	0875	1284	1692	2101	25(0)	2918		- 5
10630	02653326	3735	4144	4552	4961	5369	5778	6186	6595	7003		
31	7412	7820	8229	8637	9046							
_	02661497						3948					
33					7215							
34		_			1299			_	_			
_	02679749	_				_	-	_				
36		_			9406				_			
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38		_			7632	2122						
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41		_			9877 3958		4771				0.00	1
43	02702320 6400		7222			8447			9671		408	60
	02710487				2119	_	2935			4159		2 2 3 3 3 3 3
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45 46			5383		6278		1094			8238 2318		1
	02722725			_	4357		5173			1		G.
48	6804	_		SE 12.55			9252	_		0475		1
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N.	0	1	2	3	4	5	6	7	8	9	D	Pro.
0650	02734961	5369	5776	6184	6592	7000	7407	7815	8223	8631		
51	9039				0669						407	407
<b>52</b>	02743116				4747	11						1 41
53	7193	h		•	8823	21	ł.	B				2  81  3 122
54	02751269	1677	2085	2492	2900	3307	3715	4123	4530	4938	ł	4 163
<b>5</b> 5	5345	•	_		6976							5 203
56	9421		1		1051		1			- 1		6 244 7 285
_	02763497		i	•			_			7164		8 326
58	7572		4	1	9201	-						9 366
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65 66	6086			4	7715	11						
67	02800158				1787 5858	2 1				. ,		
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71	0442 02820512	1	I .	1	2140			-	_	0105 4175		1 41 2 81
72		1		4	6209	24						3 122
73		1	1		0279	I X				l II		4 162
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78		1			0618		1	9				
79	02853059	3465	3872	4279	4685	5092	5499	5905	6312	6719		1
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81	02861192	ī			4							
82	5257	5664	6071	6477	6884	7290	7697	8103	8510	8916		
83	9323		•	•	0949	16 .		)	_	1		
84	02873388	3794	4201	4607	5014	5420	5827	6233	6640	7046		
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86					3143							}
87	5581	_	•		7206							
88	9645		1	1	1270	1.	_		- 1			
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94	02914018	i	Í	1 1	5642	!	•			J		3 121
95	8079				9703	_				1733		4 162 5 202 <b>5</b>
96	02922139				3764							6 243
97	6200				7824 1883							7 283
98 99	02930259 4319				5942							8 324 9 364
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5 203	1	2318		1507						9079		-
6 244			5969								02962724	05
7 284 8 325			0025			8808				7186		07
9 365		4486	408 I	3675	3270	2864	2458	2053	1647	1242	02970836	08
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			4617			9 <b>34</b> 9	8944 2996			7728	7323 03011 <b>37</b> 5	17
			8668	1 1	7858		7048			5832		19
			2719			1504	1099	0694				
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405	403		0821				9201			7985		21
11 40	100	5276		4466		3656		2846			03031831	23
3 121				8515		7706				5086		24
4 162		3374	2970	2565	2160	1755	1350			<b>0135</b>		25
5 202 6 243			7019			5804		4994			03043779	
7 283		1472	1067	0662	0257	9853	9448	9043	8638	8233	7828	27
8 374			5115			3901	3496	3091	2666	2281	03051877	28
9 364		9568	9163			7949	7544	7139	6734	6529		29
					2401	1996	1591	1187		0377		10730
			7257					5294			03064020	31
			1304					9281		8471		32
			5350			4136		3327	2922	2518	03072113	
		,	9396			8182	7777			6564		34
l		3846				2228	1823				03080205	
			7486 1531				5866			4655		30
			5575		4767		2050	9520	9109	8700	03092340	37
			9619				3936	7597	2104	<b>6</b> 789	6384	
		l II	3663	3259		2450	2046	1641				39
			7706			6493		5685	1257	4870	03100428	10740
404	404		1749	1345	0941	0536	0132			6919		41
11 49		6196		5387	4083	4579	4175	3771	7323		03112558	
3121		0259		9429	9025	8621	8217	7813	7408	7004		44
410		4280	3875	3471	3067	2668	2259	1855	1450	1048	03120642	
\$ 202			7917	7513	7109	6704				5088		46
6243 7383		- 1		1554	1150					9129		47
8 323		6402	3998	5594	5190	4786	4382	3978	3574	3170		48
90364		0442	0038	9634	9230	8826	8422	8018	7614	7210	5806	49
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51	4886	5290	5694	6098			7310		8118	1	404	404
52	8926			0137	1	1	1349		2157	2561		1 40 2 81
	03152965	3369	3772	•	4580		5388		6196	_		3 121
54	7003	7407	7811	8215		1	<b>(</b>	9830				4 162
55		1445	1849	2253 6291	2057 6095	3061		38 <b>6</b> 8 7906				5 202 6 242
56 57	5080 9117	5483 9521	5887 9924		0732			1943	l l	<b>2750</b>	j	7 283
<b>58</b>		3558	3961	4365		5173	ľ	5980				8 323
59	7191	7594	T					0016			İ	9 364
	03181227	1631	2034	2438	2842	3245	3649	4052	4456	4860		
61	5263	5667		6474		7281	-	ł	8492			
62	9299	9702	<b>D</b> 106		0913	1317	1720	2124	1	2931		
	03193334	3738		4545		5352			6562			
64	7369	7772	8176			9386	9790	<b>D193</b>		1000		
_	03201403	1 .		2614		3421	<b>-</b>		4631	5034		
66			6244		7051	7455			8665	_		
· 67	9471 03213505	_	<b>0278</b>		1085	1488						
69										1167		
_	03221570		3			1		4393				
71		1	•		7215	1		8425				
72			_	0844				2457		3263	403	403
	03233666		4		1	5682	6085	6488	6891	7294	403	1 40
74	7697	8100	8503	8906	9310	9713	0116	0519	0922	1325	i	2 · 81 3 121
75	03241728	2131	2534	2937	3340			4549	1			4 161
76		6161			7570			8579				5 201
77			_		1							6 242 7 282
78 79	03253818	1			9459	5833		0668	1			8 322
	1		ţ	1	1		B (	4696				9 363
81	03261876				7516							
82		_	I		1544	Y						
83					5572	5974		_				
84		8391	8793	9196	9599	<b>5001</b>	0404	0807	1210	1612		
85	03282015	2418	2820	3223	3626	4028	4431	4834	5236	5639		
86	6042	6444	6847	7250	7652	8055	8458	8860	9263	9665		
	03290068											
88					5704							
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_	03302145		4		ł					1		l
91		1	)	7377		2206		8987	3413	9791 3815	402	402
92 9 <b>3</b>	4218	4	-		5827		1	7035		- I	102	1 40
94	8241		•	9449			0656					2 80
95	j	1		i .	3874			5081				3 121 4 161
96	6288	•		7495		1	8701			. 1		5 201
97	03330310	ř	1115	1517	1919	2321	2724	3126		3930		6 241 7 281
98	<b>433</b> 2		5137	5539	5941			7148			] ]	8322
99	8354	8756	9159	9561	9963		0767	1109	1571	1973		9 362
N.	. 0	1	2	3	4	5	6	7	8	9	$ \mathbf{D} $	Pts.

## (186) TABLE II. For finding Logarithms and Numbers to 200

F	or find	ing Log	zarithm	r and	Numb	era t	o 20 P	laces of	Figur	et.
N.		Logar	ithms.			N.		Logar	ithms.	
1 2		00000 99956		00000 19521		51 52	71600	33136	979 <b>3</b> 6 34799	15969
3		12547 99913							00789 22968	
5		00043		_		55			94243	
6		12503 80400				56 57			06200 72491	
8	90308	99869	91943	58564		58	76342	79935	62937	28255
		25094			ļ	59 60	77085	20116 12503	42141 83643	1902
11	04139	26851	58225	04075		61	78532	98350	10767	03389
		12460							98253 53581	
		33523 80356			1 1				83887	
		12590				65			42855	
16		99826 89213							41868 00826	
		25051							06236	
19	27875	36009	52828	96154					37255	
		99956			.				14256	
21		92947 26808							19075 31268	
		78360							20455	
24		12417				74	86923	17197	30976	1920
		00086			-		1		91700	
		33479 37641						35922 07251	80791 70481	3519 8714
		80313				78	89209	46026	90480	4017
		79978							90441	
		12547							91943	
		1 <b>6938</b> 99783							78649 83716	
33	51851	39398	77887			88	91907	80925	76073	
		89170		12375	.			92860		6584
		80443 25007			)				14292 43567	
		17240							18618	
		35966		15675		88		26721		6263
39 40		46070 99913		20650					44912	
		38567					ľ		39324 21093	
		92903							45555	
-	_	84555	-			93	96848	29485	53935	1169
_		26764 25137							99 <b>6</b> 98 88 <b>64</b> 7	
		78316							39568	
47	67209	78579	35717	40441		97	98677	17342	66244	8517
		12375							92494	
		60800							97549 00000	
40	AROR!	COUT3	30019	00413	1	IOO	ww	30000	00000	COOL

Tab. 2	L	OGAB	THM8	то	20 P	LACE	5.		(187)
N.	Logar	ithms.			N.		Logar	ithms.	
103 012	60 01717 83 72247 03 <b>33</b> 392	61917 05172 98780	57428 56105 20517 95485 07279		151 152 153 154 155	18184 18469 18752	35879 14 <b>3</b> 08		
107 029 108 033 109 037	30 58652 38 37776 42 37554 42 64979 39 26851	85209 86949 40623	64083			19589 19865	70869 712 <b>43</b>		
112 049 113 053 114 056	32 29787 21 80226 07 84434 90 48513 69 78403	70181 83419 36472			163 164	20951 21218	76044 38480	31849 42630 03957 47697 13906	80764 88494
117 068 118 071	45 79892 18 58617 88 20073 54 69613 18 12460	46161 06125	64380 38547 75925		169	2227 ( 22530 22788	64711	40055 47583 25862 13673 78273	27998 85365
121 082 122 086	78 53703 35 98 <b>5</b> 06 90 51114 42 16851	74748 39397	08150 22910 93180 07009 41436		171 172 173 174 175	23552 23804 24054	84469 61031	82599	
27 103	37 05451 80 37209 20 99696 58 97102 94 33523	55956 47868 99248	36650 96370		177 178 179		32663 00023 30309		62756
132 120 133 123 134 127		0584 <del>9</del> 67085 64807	86847		182	26007 26245	13879 10897 78230	69184 85074 30429 09536 03013	
137 136 138 139 139 143	87 90804	56406 01236 54095	76856 51138 08046		186 187 188 189 190	27184 27415 27646	29442 16065 78492 18041 36009	36498	31218 96929 85484 14260 96154
142 I 52 143 I 55 144 I 58	21 91126 28 83443 33 60374 36 24920 36 HOOME	83056 650 <b>6</b> 1	48131 80996 65545		192 193	28330 28555 28780	12287 73090 17299	47727 03549 07773 30226 62518	76060 04700
47 167 148 170 149 173	35 28557 31 73347 26 17153 18 4000 00 12590	48176 94957 12274	38724		198 199	29446 29666 29885	62261 51902 30764	56476 61592 61531 09706 63981	92737 11055 65010
					_	3.2	d		

18	47			100	DIMUM	0		415	ıb. 2
N.	0/	Гоозт	ithms.		ARITHM N.	T	Logar		_
_						.			
01		60574		67144	251			81038	1393
02	30749	13694 60579	13212	76949 91805	252 253		05 <b>407</b> 05 <b>2</b> 11	81544 75817	9196
04	30963	01674	25898	75626	254		37166	19938	0504
05	31175	38610	55754	29930	255		-	33955	1706
06	31386	72203	69153	40038	256	40823	99653	11849	56171
07	31597		56917	75346	257		31235	31294	53710
80		33349	62761	55006	258		97059	63230	1589
09	32014		-	00229	259			81251	8975
10	32221	92947	39919	26901	11/6	41497	33479	70817	9614
11			97692	66508	261	1	05073	38280	96199
12		58609	28751	48606	262		12913	19745	4360
13	33041	96034 37733	38737 49190	72339 83605	263		57484 39268	69831	8699° 0636
15	33243	84599	15605	39119	265			36807	8504
-	33445	37511	50930					-	
16	33645	97338	48529	89753 51058	266 267		16366 12613	31066 64575	9674
18	33845	64936		83041	268		47940	28788	
19	34044	41148	40118	33837	269		22800	02407	9800
20	34242	26808	22206	23596	270			58987	3118
21	31439	22736	85110	69775	271	43296	92908	74405	7205
22	34635	29744	50638		279		89040		7094
29	34830	48630	48160	67348	273	43616	26470	40756	0372
24	35024	80185	34162	80678	274	43775	05628	20387	9037
25	35218	25181	11362	48416	27.5	43933	26938	30262	6503
26	35410	84391	47400	91801	276	44090	90820	65217	7065
27	35602		93122	72010	277			64448	5537
28	95793			78926	278			18076	2756
<b>2</b> 9	3598 <b>3</b> 3617 <b>2</b>	5482 <b>\$</b> 78 <b>\$6</b> 0	39897 17592	99413 87887	279		42032 80313	73597 42219	5542 2211
3! 32	363 <b>6</b> 1 36548	19798 79848	92144 90899	30876 67297	281 282	1	63199 91083		8928
33	36735	59210	26018	97219	282		64355	19361 24290	0909 2355
34	36921	58574	10142	83901	284		83400	47037	6765
35	37106	78622	71736	26920	28.5		48600	08510	2030
36	37291	20029	70106	58069	286	45636	60331	29043	0051
37	37474	83460	10103	86529	287		18967		3252
38	37657	69570	56511	95447	288		24877	59230	8506
99	37839	79009	48197	68500	289		78427	56547	8570
40	38021	12417	11606	02294	290	16239			
	38201						29889		
	39381					46538			
43	38758		98312			46686			
45			64532			46982			
	39093					47129			
	39093					47275			
	39445					47421			
	39619					47507			
	59704					47712			

302 44 303 46 304 48 305 46 307 46 308 46 309 46 310 46 311 49 312 49 314 49 315 46 316 46 317 50 318 50 318 50 319 50 320 50 321 50 322 50 323 50 324 51 325 5	7856 8000 8144 8287 88429 8572 8713 8855 9136 9276 9415 99692 9831 9968 0105 0242 0379 00514 00650 00785	64955 69429 26285 35836 98393 14264 83754 07165 84794 16938 03890 45940 45940 05537 70826 92622 71199 06830 99783 50324 58716 25223	57150 02305 08753 46785 81579 77186 00444 24834 34272 26837 18442 46448 73214 89600 18403 17751 84432	35712 63208 01157 74239 83867 99834 48475 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008	PL		54530 54654 54777 54900 55022 55144 55266 55388 55509 5610 56229 56110 56229 56348 56702 56840 56840 56840 56820 56937	71164 26634 47053 32620 83530 99979 82161 30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240	65824 78131 87822 25787 55094 72875 12193 43874 78319 67287 05657 33165 56474 94410 52089 73517 59060 66994 15045	05109 01682 56550 82277 09088 17515 19653 36478 14782 96502 92507 70550 51880 99085 66639 33797 86910 99681 87635 50739
301 47 302 41 303 44 305 41 307 41 308 41 309 42 310 46 311 49 312 49 315 45 315 45 315 45 315 56 316 56 317 56 318 56 31	7856 86000 8144 8287 88429 8572 8713 8855 99136 99136 99415 9953 9968 0105 9968 0105 0242 0379 0514 0650 60785	64955 69429 26285 35836 98393 14264 83754 07165 84794 16938 03890 45940 45940 05537 70826 92622 71199 06830 99783 50324 58716 25223	93843 57150 02305 08753 46785 81579 77186 00444 24834 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	35712 63208 01157 74239 83867 99834 48475 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 367 368 369 370 371 372	54530 54654 54777 54900 55022 55144 55266 55388 55509 55709 56110 56229 56110 56229 56348 56702 56840 56840 56840 56840 56820	71164 26634 47053 32620 83530 99979 82161 30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	65824 78131 87822 25787 55094 72875 12193 43874 78319 67287 05657 93165 56474 94410 52089 73517 59060 66994 15045	05109 01682 56550 82277 09088 17515 19653 36478 14782 96502 92507 70550 51880 99085 66639 33797 86910 99681 87635 50739
302 44 303 44 304 48 305 46 307 44 308 44 309 46 310 46 311 49 312 49 314 49 315 49 316 46 317 50 318 50 318 50 319 50 320 50 321 50 322 50 323 50 324 51 325 5 326 5 327 5 328 5	8000 8144 8287 8429 8572 8572 8713 8855 9136 9276 9415 9954 9692 9831 9968 90105 90242 60379 60514 60650 60785	69429 26285 35836 98393 14264 83754 07165 84794 16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	57150 02305 08753 46785 81579 77186 00444 24831 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	63208 01157 74239 83867 99834 48475 26189 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372	54654 54777 54900 55022 55144 55266 55388 55509 55630 55750 56110 56229 56348 56466 56584 56702 56820 56937	26634 47053 32620 83530 99979 82161 30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	78131 87822 25787 55094 72875 12193 43874 78319 67287 03657 33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	01682 56550 82277 09088 17515 19653 36478 14782 96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
303 44 304 48 305 48 307 48 308 48 309 48 310 48 311 49 312 48 313 49 314 49 315 48 316 48 317 56 318 56 318 56 319 56 321 56 322 56 323 56 324 5 324 5 325 5 326 5 327 5 328 5 329 5	8144 8287 8429 8572 8572 8713 8855 9136 9276 9415 99692 9831 9968 60105 60242 60379 60514 60650 60785 60920	26285 35836 98393 14264 83754 07165 84794 16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	02505 08753 46785 81579 77186 00444 24834 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	01157 74239 83867 99834 48475 26189 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		353 354 355 356 357 358 360 361 362 363 364 365 366 367 368 369 370 371 372	54777 54900 55022 55144 55266 55388 55509 55630 55750 55870 56110 56229 56348 56384 56584 56702 56820 56937	47053 32620 83530 99979 82161 30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240	87822 25787 55094 72875 12193 43874 78319 67287 05657 33165 56112 49055 56474 94410 52089 73517 59060 66994 15045	56550 82277 09088 17515 19653 36478 14782 96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
304 44 305 44 307 44 309 44 310 44 311 44 312 44 315 49 316 44 317 50 318 50 321 50 321 50 322 50 324 51 325 5 326 5 327 5 328 5	8287 8429 8572 8572 8855 8995 9136 9276 9415 9954 9692 9831 9968 0105 0242 60379 60514 60650 60785 60920	35836 98393 14264 83754 07165 84794 16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	08753 46785 81579 77186 00444 24834 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	74239 83867 99834 48475 26189 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372	54900 55022 55144 55266 55388 55509 55630 55750 55870 56110 56229 56348 56466 56584 56702 56820 56937	\$2620 83530 99979 82161 30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	25787 55094 72875 12193 43874 78319 67287 03637 33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	82277 09088 17515 19653 36478 14782 96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
506 44 507 44 508 44 510 44 511 45 513 45 514 49 515 45 516 44 517 56 519 56 520 56 521 56 522 56 523 56 524 55 526 5 527 5 529 5	8429 8572 8572 8713 8855 9136 9276 9415 9354 9692 9831 9968 0105 0242 60379 60514 60650 60785 60920	98393 14264 83754 07165 84794 16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	46785 81579 77186 00444 24834 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	83867 99834 48475 26189 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372	55144 55266 55388 55509 55630 55750 55870 56110 56229 56348 56466 56584 56702 56820 56937	99979 82161 30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	55094 72875 12193 43874 78319 67287 05657 33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	09088 17515 19653 36478 14782 96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
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308 44 309 43 310 44 311 44 312 45 313 43 314 45 315 45 316 50 318 50 319 50 321 50 322 50 322 50 324 51 324 51 325 5 326 5 327 5 328 5 328 5 329 5	8855 8995 9136 9276 9415 9554 9692 9831 9968 0105 0242 60379 60514 60650 60785 60920	07165 84794 16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	00444 24834 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	26189 64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		358 359 360 361 362 363 364 365 366 367 368 369 370 371 372	55388 55509 55630 55750 55870 55990 56110 56229 56348 56466 56584 56702 56820 56937	30266 44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	43874 78319 67287 05657 33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	36478 14782 96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
309 44 311 49 312 49 313 49 314 49 315 49 316 49 317 50 318 50 319 50 321 50 322 50 323 50 324 51 324 51 325 5 326 5 327 5 328 5 329 5	8995 9136 9276 9415 99554 99692 99831 9968 0105 0242 0379 0514 60650 60785	84794 16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	24834 34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	64247 67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		359 360 361 362 363 364 365 366 367 368 369 370 371 372	55509 55630 55750 55870 55990 56110 56229 56348 56466 56584 56702 56820 56937	44485 25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	78319 67287 05657 33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	14782 96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
310 45 311 45 312 45 313 45 314 49 315 45 317 56 318 56 319 56 321 56 322 56 324 5 324 5 325 5 326 5 327 5 328 5 329 5	9136 9276 9415 9354 9692 9831 9968 0105 0242 0379 0514 60650 60785	16938 03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	34272 26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	67967 50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		360 361 362 363 364 365 366 367 368 369 370 371 372	55630 55750 55870 55990 56110 56229 56348 56466 56584 56702 56820 56937	25007 72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	67287 05657 93165 36112 49055 56474 94410 52089 73517 59060 66994 15045	96502 92307 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
311 49 312 49 313 49 314 49 315 49 317 50 318 50 318 50 320 50 321 50 322 50 323 50 324 5 325 5 326 5 327 5 328 5 328 5	9276 9415 9354 9692 9831 9968 0105 0242 0379 0514 0650 60785	03890 45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	26837 18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	50555 79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		361 362 363 364 365 366 367 368 369 370 371 372	55750 55870 55990 56110 56229 56948 56466 56584 56702 56820 56937	72019 85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	05657 33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	92507 70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
312 45 313 45 314 45 315 45 316 45 317 56 318 56 319 56 320 56 321 56 322 56 323 56 324 5 325 5 326 5 327 5 328 5 328 5 329 5	9415 9554 9692 9831 9968 0105 0242 0379 0514 0650 60785	45940 43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	18442 46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	79214 48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		\$62 \$63 \$64 \$65 \$66 \$67 \$68 \$69 \$70 \$71 \$72	55870 55990 56110 56229 56348 56466 56584 56702 56820 56937	85705 66250 13836 28644 10853 60642 78186 63661 17240 39096	33165 36112 49055 56474 94410 52089 73517 59060 66994 15045	70550 51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
\$13 49 \$14 49 \$15 49 \$17 50 \$18 50 \$19 50 \$20 50 \$22 50 \$22 50 \$23 50 \$24 5 \$25 5 \$26 5 \$27 5 \$28 5 \$29 5	9.554 99692 99831 9968 0105 0242 0379 0514 0650 0785	43375 96480 05537 70826 92622 71199 06830 99783 50324 58716 25223	46448 73214 89600 18403 17751 84432 57181 19905 04872 95830	48481 93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		363 364 365 366 367 368 369 370 371 372	55990 56110 56229 56348 56466 56584 56702 56820 56937	66250 13836 28644 10853 60642 78186 63661 17240 39096	36112 49055 56474 94410 52089 73517 59060 66994 15045	51880 99035 70586 66639 33799 65972 36910 99681 87635 50739
314 49 315 49 316 48 317 56 318 56 319 56 321 56 322 56 324 5 325 5 326 5 327 5 328 5	99692 9831 9968 0105 0242 0379 0514 0650 0785	96480 05537 70826 92622 71199 06830 99783 50324 56716 25223	73214 89600 18403 17751 84432 57181 19905 04872 95830	93198 51009 81842 49455 67814 12808 97607 07813 90479 89008		364 365 366 367 368 369 370 371 372	56110 56229 56348 54466 56584 56702 56820 56937	19856 28644 10853 60642 78186 63661 17240 39096	49055 56474 94410 52089 73517 59060 66994 15045	99035 70586 66639 33799 65972 36910 99681 87635 50739
\$1.5 65 \$16 44 \$17 50 \$18 50 \$19 50 \$20 50 \$22 50 \$22 50 \$23 50 \$24 5 \$25 5 \$26 5 \$27 5 \$28 5 \$29 5	9831 9968 0105 0242 0379 0514 60650 60785 60920	05537 70826 92622 71199 06830 99783 50324 58716 25223	89600 18403 17751 84432 57181 19905 04872 95830	51009 81842 49455 67814 12808 97607 07813 90479 89008		365 366 367 568 369 370 371 372	56229 56348 56466 56584 56702 56820 56937	28644 10853 60642 78186 63661 17240 39096	56474 94410 52089 73517 59060 66994 15045	70586 66659 33799 65972 36910 99651 67635 50739
316 48 317 56 318 56 319 56 320 56 321 56 322 56 323 56 324 5 325 5 326 5 327 5 328 5 329 5	9968 0105 0242 0379 0514 0650 60785	70826 92622 71199 06830 99783 50324 58716 25223	17751 84432 57181 19905 04872 95830	81842 49455 67814 12808 97607 07813 90479 89008		367 368 369 370 371 372	56466 56584 56702 56820 56937	60642 78186 63661 17240 39096	94410 52089 73517 59060 66994 15045	66639 33799 65972 36910 99681 67635 50739
317 50 318 50 319 50 320 50 321 50 322 50 323 50 324 5 325 5 326 5 327 5 328 5 329 5	0105 0242 0379 0514 0650 60785 60920	92622 71199 06830 99783 50324 58716 25223	17751 84432 57181 19905 04872 95830	49455 67814 12808 97607 07813 90479 89008		367 368 369 370 371 372	56466 56584 56702 56820 56937	60642 78186 63661 17240 39096	52089 73517 59060 66994 15045	33799 65972 36910 99681 87635 50739
\$19 50 \$20 50 \$21 50 \$22 50 \$23 50 \$24 5 \$25 5 \$26 5 \$27 5 \$28 5 \$29 5	0379 0514 0650 0785 0920	06830 99783 50324 58716 25223	57181 19905 04872 95830	12808 07607 07813 90479 89008		369 370 371 372	56584 56702 56820 56937	78186 63661 17240 39096	73517 59060 66994 15045	65972 36910 99681 87635 50739
320 50 321 50 322 50 323 50 324 51 325 5 326 5 327 5 328 5 329 5	0514 0650 0785 0920	99783 50324 58716 25223	19905 04872 958 <b>30</b>	07607 07813 90479 89008		370 371 372	56820 569 <b>3</b> 7	17240 39096	66994 15045	99681 87635 50739
321 50 322 50 323 50 324 5 325 5 326 5 327 5 328 5 329 5	0650 0785 0920	50324 58716 25223	04872 958 <b>30</b>	07813 90479 89008		371 372	56937	39096	15045	67635 50739
322 56 323 56 324 5 325 5 326 5 327 5 328 5 329 5	0785 0 <b>920</b>	58715 25223	958 <b>30</b>	90479 89008		372				50739
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324 5 325 5 326 5 327 5 328 5 329 5		_	31102			373	ENIMA	00010	00000	District to the second
325 5 326 5 327 5 328 5 329 5			OSSIO	13961				16022	08687	60551 16450
326 5 327 5 328 5 529 5		33609	78874	37878		375		12677	27718	85165
327 5 328 5 <b>5</b> 29 5			67939			376			27661	
328 5 <b>529</b> 5			60286			377			05792	
		38437	11679	08015		378	57749	17998	37225	33781
330 5		58979	49974	29513		379			68072	
	1851	39398	77887	47805	1	380	57978	_		15675
	_	79937	75718	73861	-	381		49756		30154
332 5			04036	29426		382 383	58206		11708	73285
333 5: 334 5:		42335 64668	06319 11564	87140 47520		384	58 <b>3</b> 19	12249	68622 67530	74038
335 5		48070		23894		385	58546		08500	
			89844			386			71754	
			71998			387	58771		18911	40100
338 5	2891	67002	77654	73363				17255	94207	24221
339 5			03082	16009					25707	
		89170		12375					26499	
			92497			391	59217	67573	95866	80741
			56135						20457	
			42770 71530			393 394			75426 25574	
			73274			395			26460	
			92776						25512	
			90873						63115	
			40580						73687	
349 5	4157	54269	59179	89654		399	MXKEE	28956	86748	22954
350.5	4282								27962	

(19	0)			LOG	ARIT	HM	8		T	ab. 2.
N.		Logar	ithms			N.		Logar	ithms.	
401			20182	30654		451	65417	65418	77960	53526
402		60530	84470	00006		452	65513	84348	11382	11322
403		50461	41109	44887		453 454	65609 65705	82020 58528	12831 57103	87416 91539
404 405	60745	13651 50232	10 <b>6</b> 04 14 <b>6</b> 68	96470 55397		455	65801	13966	57112	40470
				11326		456	65896	18426	64494	98447
406 407	60852 60959	60335 44092	77194 25220	03756		457	65991	62000	69850	22235
408		01630	89879	05148		458		54780	03869	18934
409	61172	33080	07341	80361		459	66181	26855	37261	24045
410	61278	38567	19735	49451		400	66275	78316	81574	07408
411	61384	18216	76069	20586		461	66370	09253	89648	14507
412	61489	72160	33134	59560	Į.	462	66464	19755	56125	50397
415	61595	00516	56401	02097	ŀ	463	66558	09910	17953	13567
414	61700	03411	20898	94867		464		79805	54980	86819
415	61804	80967	12092	70862	[	465	66745	29528	89953	92175
416	61909	33306	26742	74528		466	66838	59166	90000	16740
417	62013	60549	73757	51775		467	66931	68605	66112	16309
418	62117	62817	75035	19750		468	67024	58530 28427	74124 15083	26486
419 420	62221 62324	40229 92903	66295 97900	309B5 46322		469 470	67209	78579	35717	46441
	1						67302		28896	17406
421 422	62428 62531	20958 24509	35668 61673	30744 86030		471 472	67394	19986	34087	77590
423		03673	75042	\$3900		473		11407	37811	56716
424	62736	58565	92732	63127		474	67577	63416	74085	06050
425	62838	89300	50311	53811		475	67669	36096	24866	57111
426	62940	95991	02718	91860		476	67760	69527	20493	14968
427	63042	78750	25023	86460		477	67851	83790	40113	92029
428	63144	37690	13172	03126		478	67942	78966	12118	88022
429	63245	72921	84724	24725		479	68033	55134	14563	22010
430	63346	84555	79586	52641		480	68124	12373	75587	21815
431	63447	72701	60731	60075		481	68214	50763	73831	76601
432	63546	37468	14912	09274		482		70382	38849	57929
433 434	63648	78963 97295	53365 12510	4 1270 70559		483 484	68394 68484	71507 53616	51512 44412	14688 47193
435	63848	92569	54637	32941		465	68574	17386	02263	65657
436		64892	68586			486		62692	62293	38169
437	64048	14369	70421	84040		487	68752	89612	14634	33240
438	64147	41105	04099	53358		488	68841	98220	02710	61955
439	64246	45202	42121	37063		489	68930	88591	23820	24494
440	64345	26764	86187	43118		490	69019	60800	28513	66144
441	64443	85894	67838	53601		491		14921		
442	64542	22693	4909 L	89296		492		51027		
443		37262				493		69192		
	64738			82453		494		69489		
145		00109		58951	- 1	495			33568	
	64993		12141			496		16764		
	65030		31936			497		63887		
149		80139 63410		17492		498 499		93427 05456		53634 91417
	WJ 444	UUTIU	V2343	1142		E0.3	02010	DO-LOO	22203	SITI

Tal	2.			TO SC	PL	ACE	8.			(191)
N.		Logar	ithms.			N.		Loga	ithms	
501			67245			551	74115	15988	51785	04887
	70070		45019			552	74193	90777	29198	90180
	70150					553	74272	51313	04698	2587 i
504 505			45525 18661				74429		28429 22676	
506			39799				1		82057	
507	70500	79593	33535	97571					73728	
	70586		83919	25467			74663		37578	
	70671		3675B				74741		86423	
510 511	70842	01760	_	36584		561	74818		06200 56161	
	70926		34712	73179			74074	64155	69061	40039
513	71011	79851	11816						51346	
514	71096	31189	95275						83342	
515			41191			565	75204	84178	19438	
	71264						75281		88271	
	71349					567	75358	30588	92906	57989
518 519	71432								11018	
519 520	71600	73578 33436	48457 34799				75587		95071 72491	17229 39883
521	1	77232		47424					45848	
522	71767			15714		572	75739	60287	93024	20038
	71850				}	573	75815	46219	67389	97493
	71933		83726						97973	
525			05956						89630	
526			59739						23212	
527	72181		12546		, 1	577	76117	58131	55731	42849
928 529	72263					378	70192	78384	20529 27436	05229
530			35185 00789						62937	
	72509								90330	-
532	72591		95048						49888	
533	72672		26572						59014	
534	72754		28556			584	76641	28471	12599	48679
535	72835		21228	- 1		585	76715	58660	82160	44858
	72916								18090	
	72997								47614	
	73078	87651	86738	17530			77011		76138	
	73239								87101 42144	
	73319								81255	
542	73399	92365	38386	92475		592	77232	17067	22919	77766
	73479								64262	
544	73559 73639		98179						81193 28549	
	73719								40236	
	73719								29369	
	73878								88410	
549	73957	23444	50091	OWN AND		599	77742	68223	89311	37983
				84554		000	77815	12503	83643	63251

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801	77887	44720	02739	52089		651	81358	09885	68191	94767	
602	77959							75957			
603	78031	73121	40151	30874		- 1	81491		75073		
604	78103	69386	21131	82730		654	81557	77483	24267	26771	
605	78175					655	81624	12999	91783	06560	
	78247					ALA	81600	38393	25660	27586	
	78318							55695			
	78390					658		58936			
	78461							54145			
	78532							39355			
	78004	-				100	1	14594			
	78675							79894			
	78746		18415					35284		13504	
	78816					664	82216	80793	68017	48947	
615	78887	51157	75416	73659		665	82282	16453	03104	59703	
816	78958	07121	64425	45710		666	82347	42291	70301	06661	
617	79028	51640	33241	68205		667	82412	58339	16548	96620	
	79098							64624		-	
619	79169	06490	20117	97680	1	660	82542	61177	67823	11077	
	79239					670		48027			
	79309				1		00870	25201	80000	07464	
					1						
	79379					672		92730			
	79448							50642			
	79518							98965			
025	79588	00173	44075	21912		075	82930	37728	31024	92146	
026	79657	43332	10429	68002	]	676	82994	66959	41635	92884	
	79726				1	677	83038	86666	85144	31001	
	79795					678	83122	96938	67063	35530	
629	79805	06454	45268	92535	1	679	83180	97742	80501	68256	
630	79934	05494	53581	70530		680	83250	89127	06236	31897	
631	80002	93592	44134	31302		681	83314	71119	12785	15740	
	80071							43746			
	80140							07036			
	80208						ľ	61017			
	100277							05714			
	80345						l				
	80413							41157			
	80482							67370			
	80550				1			84382			
	80017					689	83821		07625		
				17128		690		90907		31016	
	80085							80473	_		
	30753					692		60944			
	80521					693		32346			
	80888			10001		694	84135	94704	54854	91375	-
645	80955	97146	35267	76849		695	84198	48045	90113	88524	
646	81023	25179	95084	08529		696	84260	92396	10562	11097	1
	81090					697		27780			
	81157								23161		
	81224	_						71757		40948	
	81291							80400			
1		22000	1			1.00	STOCK	00100	17230	92011	

LOGARITHMS

N.

(192)

Logarithms.

Tab. g.

Logarithms.

180	o. g.			TO 20	PL	ACE	s.			(195
N.		Logar	ithms.			N.		Logar	ithms.	
703 704	84633 84695 847 <i>5</i> 7	80179 71121 53250 26591 91169	29805 19823 42112	27631 95834 21203		751 752 753 754 755	87621 87679 87737	78405 49762 13458	04168 91642 00700 69774 29188	24527 57664
706 707 708 709	84941 85003	47010 94137 32576 62351	51803 96899 89769 83066	76071		756 757 758	87852 87909 87966 88024	17955 58795 9205 <del>0</del> 17758	01206 00072 32053 95480 80791	55305 75705 5371. 3569
715 714	85247 65308 85369	96007 99936 95298 82117 60418	36856 51865 76174	37036 55853 39176		763	88193 88252 88309	46567 49713 45379	70572 39600 54880 75689 53617	8265 4967 4639 9280
<b>7</b> 16 <b>7</b> 17	85491 85551 85612	\$0223 91556 44442 88903	07855 67800 42300	56000 12230		767 768 769	88422 88479 88536	87696 53639 12200 63 <b>3</b> 98	32003 48980 31511 01431 72481	9555 9594 9990
723	85913 85973	71975 62972 65661	94530	90071		773	86761 88617 88674	09606	35730 18324	5962
720 727 728 729 730	86153 86213 86272	66207 44108 13793 75283 28601	59037 13037 17974	18556		778 779	89042 89097 69153	74576		93144 4560
731 732 733 734 735	86451 86510 86569	73769 10810 39746 60599 73390	58 <b>3</b> 91 41127 18070	80161 94517 53320		782 783	89320 89376 89431	67530 17 <b>6</b> 20 60626	77300 59848 57943 84438 45252	0026: 3992: 4422:
738 739	86746 86805 86864	78143 74878 63618 44389 17197	59051 23041 94825	56431 75669		789	89597 89652 89707	47323 62174 70032	39407 59064 89555 09420 90441	5584° 31786 3062°
742 743 744	87040 87098 871 <i>5</i> 7	82079 99052 88137 29355 62727	79027 60575 45878	07156 29242 70260		791 792 793 794	89817 89872 89927 89932	64834 51815 \$1873 05024	97676 89493 17603 27096 56470	5535 5009 8030 2610
747 748 749	87332 87390 87448	89274 06018 15978 18176 12633	15 <b>3</b> 98 64461 <b>9</b> 9466	77842 35972 47155		797 TUE 799	90145 90200 90254	83213 28913	37669 96112 50729 13991	3472 4247 3929

(19	4)			LOG	ARIT	нма	3.		T	ab. 9.
N.		Logar	ithms.			N.		Logar	ithms.	
801 802 803 804	90417 90471	25160 43682 55452 60487	84163	65931 50176 94182 26187			93043	95600 95947 90311 78706		
805 806 807 808 809	90633 90687 90741	58803 50418 35347 13607 85216	22070			858	93247 93298 93348	72878		44/247
810 811 812 813 814	90902 90955 91009 91062	60292 05455 44048	94068 89201	30847 16682 23277		862 863 864	1	31514 72658 07957 37424	15209	76252 79596 59266 28795
815 816 817 818 819 820	91169 91222 91275	76087 01587 20565 33036 39017 38523	53861 32415	61243 14669 48794 99882 47451 68972		866 867	93751	73920 90974	17346 76210 76491	63791
821 822 823 824 825		18175 98352 72116	19440 40050 12269 97115 49925	77180 40107 8 <b>3</b> 977 79081 08762		872 873 874 875	94151 94200	42437 14326 80530	32567 05569 34403	20336 22084 72637 03562 24507
826 827 828 829 830	91750 91803 91855 91907	00473 53095 03367 45305 80923	52546	21619 67071 14389 55312 90383		877 878 879 880	94448	95933 45159 88750 26721	50168	51823
831 832 833 834 835	92012 92064 92116 92168	33262 50014 60506 64754	06787 37738 83602	94049 58996 71297 08477		885	94546 94596 94645 94694	85851 07035 22650 32706	77568 13073 97825	91274 73123 58562 08817 43234
836 837 838 839 840	92272 92324 92376 92427	92860		65843		887 888 889 890	94792 94841 94890 94939	00066	31726 78601 70213 44912	
843 844 845	92531 92582 92634 92685	59957 20914 75746 24466 67089	99649 24742 25655 49692	50266 33016 05551 34320		892 893 894 895	95036 95085 95133 95182	48543 14588 75187 30353	88546 95917 15911	06390 42595 67077 97436
848 849	92737 92758 92839 92890 92941	58522 76902	\$0706 50713 43952	91221 82649 67285		897 898 899	9527 <b>9</b> 95327 95375	63 <b>3</b> 66 96917	62125 44092 67304 33228 59324	37019 76700

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Tat				ro 2	-	E 11		1			(195)
N.		Logar	ithms.				N.		Logar	ithms.	
901	95472	47909	79062	97417			951	97818	05169	37413	93185
902	95520	65375	41941	73047		- 1			69483		34489
903	95568	77503	13505	79441		- 1		97909		38326	
904	95616	84304	75963	30844					83747		11544
905	95664	85792	05203	31508				98000		83746	34242
ക്ക	95712	81976	76819	06038			056	08045	78000	76100	07545
		72870						98091		76843	
	95808		21085							78544	
	95856		21967	44887				98181		70663	
	95904		21093			- 1		98227		39568	
911			72998			- 1	961			68545	
	95999			17969		- 1	-			37812	
		07775							62871		51544
	96094		33831	41757		ı				02830	
		10940					905	98452	73133	43792	56538
916	96189	54736	67850	38456		- 1	966	98497	71264	15493	34209
917	96236	93356	70021	09152		- 1	967	98542	64740	83001	67360
918	96284	26812	01242	43564		- 1	968	98587	53573	08393	66714
919	96331	55113	86111	26520		- 1	969	98632	37770	50765	32737
920	96378	78273	45555	26930		- 1	970	98677	17342	66244	85178
091	98425	96301	96848	92205		- 1	971	98721	92299	08004	86280
		09210				- 1				25274	
		_		05530		- 1				68351	
		19712				- 1				78615	
		17327				- 1	_			98536	
-						- 1					
v		09866		- 1			_			66691	
	96707		44497					98989		18773	
		79762							+	87601	
		57139						99078		03137	
		29485		- 1						92494	
931	96894	96809	81342	62296		- 1	981	99166	90079	79948	50979
932	96941	59123	53981	36262		L				36949	
	96988		46499	94285		- 1		99255		32135	_
934	97034	_	30093	35830		- 1			50984	-	51743
935	97081	16108	72517	77408			985	99343	62304	97611	73210
936	97127	58487	38105	22944			986	99387	69149	41211	21109
		95908		26303			987	99431	71526	69636	73242
	97220		79084					99475		87628	
		55922	66110				989	99519	62915	97179	40527
		78535						99563		97549	91594
		96234					001	00607	36544	25075	32836
040 144	97338	09027	00977	86007			991	00851	16791	54178	
										95381	
		19942		37338			993	00748	SARRA	97313	31900
				94738			004	00799	30807	45725	45480
		11364					996	99825	93384	23098	73150
	•			41875			997	99869	21283	11655	11986
				25572			998	99913	05412	87371	10938
		62124					999	99950	34682	25982	30809
MEA	07779	36052	88847	7 66 80			1001	100043	40774	79318	04007

	(196	5)			LOG.	ARIT	'HMS			T	ab. 2.	
	N.		Logar	ithms.			N.		Loga	rithms		
	1003 1005	00216		56507	11880 67628		1105	04336	22780		50254	и
	1007 1009 1011	00302 00389 00475	94705 11662 11555	53618 36910 91001	00717 52172 06349			04414 01493 04571	76208 15461 40589	78722 49160 40867	80639 06471 61503	2 - 2
ľ	1013 1015	00560 00646	94453 60422	60280 49231	42845 72283		1115	04649 04727	51643 48673	_	31364 47827	
l	1017 1019 1021	00817	09529 41840 57420	22744 06426 86910	59739 39490 24725			04805 04883 04960	00865	15609 28350 94973	05702 04281 15180	
I	1023 1025	01072	56337 38653	12160 91773	1577 I 10408	H.		05037 05115	25224		7846) 28895	
	1027 1029 1031	01157 01241 01325	04435 53747 86652	97278 62492 83516	19720 92943 54691		1129	05192 05269 05346	39160 39419 26049	46106 24967 25435	54029 85114 29384	
	1033	01494	03497	92936	57904 55824		1135	05 199	58615	63397 29741	24392 52489	
l	1037 1039 1041	01577 01661 01745	87563 55475 07295	89040 57177 10536	96243 <b>4124</b> 0 15583		1139	05576 05652 05728	37240	87734 79100 18214	77921 36260 63835	-
i	_	01911	43084 62904	47072	86897 80707		1145	05804 05880	54866	95281 75906	73884 79892	
	1049 1051	01994 02077 02160	54881 27160	78842 93557 28242	\$3384 85991 22008		1149		34179 00286 53236	01267 88285 29791	17764 8018a	
ı		02325			51839 46987		1155	06182 06258	19842	28163	02164	
I	1059	02489	19873 59601 53839	07485	26758 00279 66612		1159	06408	33589 34359 22197		55393 99543 85830	
- 1	1065	02731	32645 96077 44194	74756	75697 52817 89253		1165	06557 06632 06707		62037	41130 77695 17354	
I	1069	02897		09778	01749 63385		1169		45111	61840	11069 12990	
l	1075	03140	8 1642	65951 51624 97981	08414 13598 58511		1175	06929 07003 07077		07755	21471 07394 68158	
l	1081	03382	14440 50 139	82910 5 :310	67304 34328		1181	07 <b>16</b> 1 07 <b>224</b>	38050 98976	95089 13511	1 3541 7/1908	
ı	1085	03462 03542 03622	97381	85148	31517		1185	07371	83503	27950 46122 54591	1.7008	
1	1001	03702	47505	88341	87761		1191	07591	17614		50314	
l	1095 1097	03882 ( 03941 ( 04020 (	41191 66275	76137 74711	13222		1195 1197	07809	79032 41504	84156 06410	99984	
		04099 1 04178 1			567 47 7 <b>75</b> 29		1199	07881	91830	98848	77393	

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TO 20 PLACES. (197)										
Logarithms.	Differ. 1.	Diff. 2. D. 3								
00432 13737 82642 57428 00432 56737 06721 23527 00432 99733 88227 02280	42998 81505 78753	42572 03045 8429								
00433 42731 27160 77988 00453 85732 23523 34949	42997 96362 56961 42997 53792 22509	42570 <b>3445</b> 2 8429 42569 50158 8429								
20435 14723 57192 36292	42996 68654 06485 42996 26086 24903	42567 81580 8128 1111 97294 8428								
30436 00715 68797 88804 30436 43711 07751 03402	42995 83519 27609 42995 40953 14598 42994 98387 85868	42565 28730 8427 42564 44453 8427								
00436 86706 06138 89270 00437 29700 61962 30685 00437 72694 75222 11924 00438 15688 45919 17259	42994 13259 81239 42993 70697 05335	42562 75904 8427 42561 91655 8426								
00438 15688 45919 17259 00438 53681 74054 30961 00439 01674 59628 37298 00439 44667 02642 20536 00439 87659 03096 64938 00440 30650 60992 34764	42992 85574 06337 42992 43013 83238 42992 00454 44402 42991 57895 89826	42560 23099 8426 42559 38836 8426 42558 54576 8425 42557 70318 8425								
00440 73641 76350 74272 00441 16632 49112 07719 00441 59622 79337 39356 00442 02612 67007 53435	42990 72781 33447 42990 30225 31637 42989 87670 14079	42556 01810 8425 42555 17558 8424								
00442 88591 14685 65908 00443 31579 74695 32791 00443 74567 92153 19092 00444 17555 67060 09050	42988 60009 66883 42986 17457 86301 12987 74906 89958	42551 80582 84234 42550 96343 84234 42550 12107 84234 42549 27874 84236								
00445 03529 89224 36878 00445 46516 36483 43211 30445 89502 41194 90128 00446 32488 03359 61854 00446 75473 22978 42614	42986 04711 46917 42985 62164 71726	42546 75191 8422 42545 90966 84219 42545 06747 84219								
20447 61412 34581 68112 20448 04120 26567 81283	42983 06901 89182	42542 54099 8420 42541 69890 8420 42540 85681 8120								
00441 33375 47274 \$3039 00449 76357 69095 35063 00450 19339 48377 19816 00450 62320 85120 71496 00451 05501 79326 74302	42981 79281 84753 42981 36743 51680 42980 94206 02806	42538 33073 8419 42537 48874 8419 42538 64071 8419								
00451 48282 30996 12430 00451 91262 40129 70073 30452 34242 00728 31420 30452 77221 30792 80660 30453 80000 12524 01980	42980 09133 57643 42979 66598 01347 42979 24064 49240 42978 81531 21320	42534 96296 8118 42534 12107 8418 42533 27920 8118 42532 43739 8418								

(198)	1			LOGA	RITH	MS			T	ab. 3.
Num.		Logar	ithms.		D	iffer.		Diff	f. g.	D.3.
101050 101051 101052 101053 101054	00454 00454 00454	06156 491 <b>3</b> 4	47789 01726 13132	97584 40227 91667	4297 <b>7</b> 42 <b>977</b>	5 <b>3</b> 936 11406 68877	42643 51440	42529 42529 42528	75580 91203 07031 22861 38693	84179 84170 841 <b>66</b>
101055 101056 101057 101058 101059	00456 00456 00457	64015 06990	92181 33476 32246	68806 26773	42974	41295 98769 56244	28 <b>52</b> 9	42526 42525 42524 42521 42523	70364 86203	84158 84155
101060 101061 101062 101063 101064	00457 00458 00458 00459	92939 35912 78886	02211 73407 02084	68252 20079 38170 06675	42973 42973 42972 42972	71197 29675 80153	18091 68505 03067	42522 42521 42520 42519 42518	49586 65438 81202	841 <b>4</b>
101065 101066	00460 00460 00461	07803 50774 93746	32984 91578	31517	42971 42971 42970 42970	5859 k 16076 73558 31042	24626 11617 62746	1	15009 28871 44734 60602 76472	84137 84132 84130
101070 101071 101072 101073 101074	00462 00463 00463	65626 08595	46794 50292	66666 75462	42969 42968 42968	03498 60985 18472	08596 00378 76283	42513 42512 42511	92542 08218 24095 39973 55856	841 <b>33</b> 841 <b>32</b> 84117
101073 101076 101077 101078 101079	00164 00165 00465		39162 30103 78535	88433 68887 77601 98688 16259	42966 42966 42966	90941 49132 05924		42508 42508	03516 19409	84111 841 <b>0</b> 7 841 <b>0</b> 7
101080 101081 101082 101083 101084	00166 00107 00407	3×262	68787 17192 83093	88941 <b>335</b> 03	42964 42964	78405 35900 93396	11660 44562	42505 42504 42503 42502 42502	67098 83001	84097 84093 84095
101085 101086 101087 101088 101089	00469 00469 00469	10117 53080 96042	01665 25054		42962 42962 42961	65890 23389 80890	17123 70189	42498	46034 62547	8 4083 8 4080
101090 101091 101092 101093 101094	00471 00471 00472	24926 67886 10847	40229 9 <b>3</b> 625 04 <b>525</b>	65689 90477 89036	42960 42960 42959	53396 10899 68404	24788 98559 56403	42495 42494	20229 42156 58087	84070 84070
101095 101096 101097 101098 101099	00473 00473 00474	39724 82683 25641	62256 23180 21011	68054 02101 30359	42958 42957 42957	40923 98491 55940	34347 28458 06629	42492 42491 42490	05889 21829 37768	54060 54061 8405E

ab. 3				TO 20	PLA	CES.		(199			
∛um.		Logar	ithms.		E	liffer.	1.	Dif	f. 2.	D. 3.	
01100	00475	11555	91001	06349	42956	70960		42488	69660	84050	
10110			61961		42956		45485	42487	85610		
			90432 76416				59875 58315		01562 17516		
	00476	83380	19912	85167	42955 42955		40797	42485	33473	84043	
	00477	20335		25964		58525		42484	49433	94040	
	00477			33288		16040			65393		
01107	00478	12243	95488	91179	42953	73556		42482	81359	84035	
				83677			11139				
01109	00478	98151	_	94816			13815	42481	13294	84028	
01110	00479	41103		08631		46111				84025	
101111 101112	00479		34823	80407		61151	71255		45241 61215	84026	
	00480			06421	42951		64799		77197		
01114		12911	18277	-	42950	76194	87602	42476	93177	84015	
101115	00481	55861	94472	58822	42950	35717	94425	42476		84013	
			28190		42949				25149	84012	
	00482			98510			60114				
	00482 00483		68198 74491	98624 17601	42949 42948	65419	18977 61848	42473 42472	57129 73123	84000	
	7		39300		42948	21545	88725		89121	5	
01120	OOARA	19557	50655	68174			99604		05118	8399 <b>6</b>	
101122	00484	56505	38529	67778	42947		94486			83998	
101123	00484	99452	74932	62264	42946		73364		37124	83993	
	00485	42399	66865	35628	42946	51463	36240	42468		83990	
101125	00485	85 <b>54</b> 6	20328	71868				12467		83988	
101126	00486		29323			66527	13968	42466 42466	85153	83988	
101128	00487	71237 14183	19910	68945	-	81594	28815		17183	83982 8 <b>39</b> 81	
101129	00487	57128	01505		42944	39129	10467		33202	85976	
101130	00488		40634		42943	96664	77265	42463	49224	83976	
101151	00488	43016	37299	13142	42943		28041			83971	
101132	00488	85959	91500	41183			62795	42461		83972	
01133	00489			03978			81520			83969	
			72515	85498		26815			13334	83965	
01135		14787		69715 40598	42941		70883 41514	42459 42458	29369 45405	83964 83962	
01137	00491		25583	82112	42040					83957	
01138	00491	43612	25021	78221	42940	56980	34666	42456	77486	83956	
			82002				57180				
				70067							
				33717							
				87791 16240							
DI 144	00494	01249	30069	03013	42938	02252	29043	42451	73786	83941	
				52056							
				87313							
01147	00495	30062	09471	52725	42936	74899	59505	42449	21971	89934	
21148	00495	72998	84371	12230	42936	32450	37534	42448	38037	83931	
111461	KABANG	15935	10831	49764	42935	90001	99497	42667	24106	-	



	E C	25.3J	1	TA.	BLE	IV.					
(200)	1/2	, T	7	LOGA	RITHE	IS AN	D		-	ľ	ab. 4
Log.	Number. Differ. 1.						1.	Diff. 2. D.			D. 3
00000 00001 00002 00003 00004	10000 10000 10000		11602 76225 93869	68807 57806 89084	23027	64622 17644 70666	88999 31278	53021 53022 53023		1 1 1	2206
00007	10001 10001 10001	38164 61193 84223	64943 94685 77455	57474 78767 52806	23028 23029 23029 23030 23030	29742 82769 35798	21293 74039 48685	53027 53028 53029	52746 74846	1 1 1	2210 2210 2210 2210 2211
00011 00012 00013 00014	10002 10002 10002 10003	53316 76348 99380 22413	43942 58834 86759 87720	12421 18484 87829 42571	23033 23035	94892 47925 00960 53996	06063 69345 51742 62259	5303 <b>3</b> 5303 <b>4</b> 530 <b>36</b> 530 <b>37</b>	63282 85397 07517 29637	111	2212 2212
00016	10003 10003 10004 10004	68481 91516 14551 37586	49750 08823 21935 88088	96726 40384 57952 71498		60072 13112 66153 19195	43658 17548 13566 51718	53039 53040 53042 53043	73890 96018 18152 40288	1 1 1	221: 221:
00022 00025	10004 10005 10005	83659 06697 29734	79522 04806 83155 14511	75222 09653 28651 54360	23036 23037 23037 23038 23038	25283 78329 31376 84424	34431 18998 25709 54566	53045 53047 53048 53049	84567 06711 28857 51008	1 1 1	221
00026	10005 10006 10006	21891 44931	56410 26934 70511	14500 93233 67281	23039 23039 23040 23040 23041	90524 43576 96629	78733 74048 91521	53051 53053 53054	95315 17473 59634	1	2210
00031 00032 00033	10007 10007 10007 10007	14056 37098 60141 83185	19565 75362 84217 46131	82909 59825 42875 54229	23044	55796 08854 61914 14974	76916 88050 11354 61885	53058 53059 53060 53061	06134 28304 50481 72658	1 1 1	2217 2217 2217 2217 2217
00037 00038 00039	10008 10008 10008 10008	29274 52319 75365 98411	29142 50241 24405 51634	50557 79888 26242 11803	23044 23045 23045 23046 23046	21099 74163 27228 80295	29331 46354 85561 46958	53064 53065 53066 53067	17023 39207 61397 83589	1 1 1	2219
00041 00042 00043 00044	10009 10009 10010	44505 67553 90601 13650	65292 51725 91227 83802	89308 25639 89950 04443	23047 23048 23048 23049	86432 59502 92574 45646	36331 64311 14493 86877	53070 53071 53072 53073	27990 50182 72384 94590	1 1 1	2220 2220 2220 2220
00046 00047 00048	10010 10010 10011	59750 82800 05851	28169 79965 84838	72787 71052 08326	29049 23050 23051 23051 23052	51795 04872 57949	98265 \$7276 98500	53076 53077	59011 61224 83449	1	2221 2221 2221

Tab.	4.		NUL	BERS	TO S	20 PL	ACE8.				(201)
Log.		Nun	nber.		I	Differ.	1.	Dif	f. 2.	]	D. 3.
00050			53816				•	.•	27845	l .	22225
00051			17925	_		17190		1	50110	)	22228
00052		98061 21115	35115	91861	•	70272	65598				22232
00054			05388 28744	57459 95395	23054	23356 76441	37936 32506		94570 16803		22233 22238
00055			05186	27901	23055	29527	49309	53087	39041		22238
00056						82614	88350	53088	61279	1	22214
00057	10013	13335	17328	65560	23056	35703	49629	53089	83523	1	22245
00058			<b>53032</b>	15189	23056	88793	33152	53091	05768	i	22247
00059	10013	<b>5944</b> 8	41825	48341	23057	41884	<b>3</b> 89 <b>2</b> 0	53092	28015	1	22252
00060			· · · · ·	87261	23057	94976	66935	53093	50267	1	22254
	10014		78686	54196		48070		53094		-	22255
00062				_		01164	89723		94776	1	22261
<b>a</b> . 1		74740	27921 82182	61121 45620	23059 23060	54260	84499	53097	17037	1	2?262
	_				_	07358	01536		39299		22263
00065		•	89540 49996	47156	23000 23061	60456 13556			61562	1	22270
00067				87991			02397 86220		83832	1	22270 22273
00068	10015	66984	30209	76617	23062	19758	92331	53102	28375	1	22276
00069										Ì	22280
00070									1	,	22282
00071									95213	1	22284
00072				05299	23064	32179		53108	17497	-	22287
00073								53109		_	22290
	-		45337						62074	1	22295
00075							58856			_	22295
00076											22299
00077			19861 17593						28963	_	22301
00079				_			30116		51264 73560	1	22305
00080							,			ī	22306
00081	10018						99560		18187	1	22312 22312
00082					23069		17747	1		1.	22312 22315
00083				_			58246			1	22318
00084	10019				23070		21060	2		ì	22324
							06192	53124	07.156	1	22321
00086	10019	82185	11670	66008	23071	75805	13648	53125	18	1	22329
00087		05256						1	52106	l	22329
00088			- <b>-</b>		23072			-	74435	L	22332
									96767	_	22336
									19103		22339
00091		97549					85836	1	41442	1	22339
00092	_				23074 23075		27278 91059		63781	l	22346
00094							77186			1	22345 22351
I I								l.	30823	_	22350
00096			60507		23070		16481		53173	1	22350 22358
00097			-					6		1	22355
00098							45185			i	22363
00099											22362

	Log.		Nun	aber.		Ι	differ.	I.	Dif	f. 2.	J	D. s.	
i	00100	10023	05238	07789	96719	23079	19670	63320	53142	42611	1	22368	
		10023	28317	27460	60039	23079	72813	05931	53143	64979	1	22367	
		10023	51397	00273	65970	23080	25956	70910	53144	87346	L	22374	
1	00103		74477	26230	36880	23080	79101	58256	53146	09720	ı	22374	
	00104		97558	05331	95136	2308 t	32247	67976	53147	32094	1	22376	
-	00105	1002+	20639	37579	63112	23081	85395	00070	53148	54472	h	2:2380	
	00106			22974	63182	23082	38543	54542	53149	76852	1	22383	
3		10024	66803	61518	17724	23082	91693	31394	53150	99235	ы	22386	
ļ	00108		89886	53211	49118	23083	44844	30629	53152	21621	lι	22590	
ì		10025	12969	98055	79747	23083	97990	52250	53153	44011	1	22392	
	00110	10025	36053	90052	31997	23084	51149	96261	53154	66403	ι	22395	
		10025	59138	47202		23085	04804	62664	53155	88796	l t	22398	
	00112		82223	51506	90922	23085	57460	51460	53157	11194	1	22400	
		10026	05309	08967	42382	23086	10617	62654	53158	3359 F	1	22403	
	00114		28395	19585	05036	23086	63775	96248	53159	55997	1	22407	
	00115		51481	83361	01284	23087	16935	52245	53160	78404	ī	22407	
	00116			00296	53529	23087	70096	30649	53162	00311	1	22412	
	00117		97656	70392	84178	23088	23258	31460	53163	23223	1	22415	
	00118	ſ	20744	93651	15638		76421	54683	53164	45038	i	22416	
	00119		43833	70072		23089	29586	00521	53165		1	22421	
	40112		20000		. 0022								

23089 82751 68375

23090 35918 58850

10028 13103 18328 97867 23090 89086 71747 53169 35322 1

10029 05469 93698 86507 23093 01771 47619 53174 25054 1

00129 10029 74750 58535 26964 23094 61297 90100 53177 92381 1 22448 00130 10029 97845 19893 17064 23095 14475 82481 53179 14829 1 22450

00135 10031 13326 24016 02278 23097 80383 81161 53185 27112 1 22464

00139 10032 03720 64667 79455 23099 93132 24408 53190 16989 1 22476 00140 10032 28820 57800 03863 23100 46322 41397 53191 39465 1 22478

00144 10033 21225 62242 95158 23102 59095 34140 53196 29393 1 22490 00145 10033 44328 21338 30298 23103 12291 63533 53197 51885 1 22495 00146 10033 67431 53629 93831 23103 65489 15416 53198 74378 1

00147 10033 90534 99119 09247 23104 18687 89794 53199 96877 1 22501 00148 10034 13639 17806 99041 23104 71887 86671 53201 19378 1 22503 00149 10034 38743 89694 85712 23105 25089 06049 53202 41881 1 22506

23094 08121

20165

23099 39943 29894 53188 94511

23096 74016 94322 53182 82190 1 22459

00123 10028 30194 07415 69614 23091 42256 07069 53170 57752

00131 10030 20940 34308 99545 23095 67654 97310 53180 37279

00132 10030 44036 01963 96855 23096 20835 34589 53181 59733

00133 10030 67132 22799 51444 23096 74016 94322 53182 82190 00134 10030 90229 96816 25766 23097 27199 76512 53184 04649

00136 10031 36424 04999 83439 23098 33569 08273 53186 49576

00137 10031 59522 37968 91712 23098 86755 57849 53187 72045

00141 10032 51921 04122 45260 23100 99513 80862 53192 61943 00142 10032 75022 03636 26122 23101 52706 42805 53193 84426

00143 10032 93123 56342 68927 23102 05900 27231 53195 06909

00124 10028 59285 49671 76683 23091 95426 64821

00125 10028 82377 45098 41504 23092 48598 45003

10029 29562 95468 34126 23093 54945 72673

53166 90475 1

53168 12897 [1

53173 02616 1

53175 47492

53176 69935

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22483 . 1 22481

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1 22445

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1 22A80

53171 80182 1 22434

LOGARITHMS and NUMBERS to 20 PLACES.

Tab. 4.

(202)

00122

00126

00127

00120 10027 66922 99658 70642

00121 10027 90012 82410 39017

10029 51656 50414 06799

00138 10031 82621 24724 49561

## TABLE V.

## Baiaas's Logarithms of all Numbers to 100, and of Primes under 1100, to Sixty-one Places.

N Tab. 5.			L	OGARI'	rests 7	ro 61	PLACE	ð.			(203	) 2
1 0-00000 2 0-30102 3 0-47712 4 0-60205 5 0-69897	99956 12547 99913	63981 19662 27962	19521 43729 39042	37388 50279 74777	94724 03255 89448	49302 11530 98605	67681 92001 35363	89881 28864 79762	46210 19069 92421	85413 58648 70826	104275 292656 208549	4
6 0-77815 7 0-84509 8 0-90308 9 0-95424 10 1-00000	12503 80400 99869 25094	83643 14256 91943 39324	63250 93071 56564 87459	87667 22162 12166 00558	97979 58592 84173 06510	60833 63619 47908 23061	59683 34835 03045 84002	18745 72396 69644 57728	65280 32396 38632 38139	44061 54065 56239 17296	402931 036350 312824 597313	9
11 1-04139 19 1-07918 13 1-11394 14 1-14612 16 1-17609	12460 33523 60356	47624 06836 78238	82772 76920 02592	25056 65051 59551	92704 57942 53317	10136 32843 12922	27365 08297 02517	08627 29168 62277	11491 38706 78607	29474 82718 39478	507206 011910	12 13 14
16 1-2041) 17 1-23044 18 1-25527 19 1-27875 20 1-30102	89213 25051 36009	7#273 03306 52828	92834 06980 96153	01698 37947 63334	94328 01234 75756	33703 72364 92931	00075 51684 79511	67878 47609 29337	42504 84350 39449	63973 02709 75989	701587 068189	12 16 19
91 1-32221 22 1-34242 23 1-36172 24 1-39021 25 1-39794	26808 76360 12417	22206 17592 11 <b>6</b> 06	23596 87886 02293	39388 77771 <b>6244</b> 5	65967 12251 87428	51726 18954 59438	96975 95046	92071 11034 98508	92856 33600 57702	16359 61882 14887	756055 611490	2: 2:
	37641 80313 79978	58987 42219 98956	31188 22113 66733	50837 96940 28467	09765 48041 62969	34592 62224 25499	76003 70199 12542	66592 52159 94417	57208 24818 BB715	75944 24891 36410	653969	2
31 1-49136 32 1-50514 33 1-51251 34 1-53147 35 1-54406	99783 39398 89170	19905 77887 42255	97606 47804 12375	86944 52278 39087	73 <b>622</b> 7 <b>44</b> 98 89052	46513 13955 83003	38409 09068 67757	49407 31054 57259	31054 65714 88715	27065 89594 49386	264047 907959	3.
36 1-55630 37 1-56820 38 1-57978 39 1-59106 40 1-60205	17240 35966 46070	66994 16810 26495	99680 15675 <b>2</b> 0650	84506 00723 15330	695 <b>39</b> 70481 6119 <b>7</b>	12944 42234 44374	79829 47193 00298	72690 19218 58052	16631 85660 57776	25466 61402 41366	176799 172463 310566	3:
41 1-61278 42 1-62324 48 1-63346 44 1-64345 45 1-65821	92903 84555 26764	97900 7958G 86187	46322 52640 43117	09830 50881 76777	56572 53229 60692	24452 22215 01029	94518 88087 52430	91141 74884 81953	97676 38009 39067	98126 34145 01772	439281 247493 173939	4.
46 1-66275 47 1-67209 42 1-68124 40 1-69019 50 1-69897	78579 12373 60800	35717 75587 28513	46441 21814 66142	42193 99834 44325	99449 82153 17185	20064 08741 27238	01598 62728 69671	03098 88390 44792	42994 03913 64793	78270 00300 08130	373294 715755 072699	4:
82 1.71600 53 1.72427 54 1.73239 58 1.74036	33436 5x696 37598 26894	34799 00789 22968 94243	15963 04563 50709 84553	39829 29922 88226 64610	47391 91627 04489 76518	31448 25659 83895 53121	43661 26955 43685 49385	08951 02401 76474 12309	\$1128 29493 03419 00434	53544 77805 61358 45532	941030 000244 861116	5.5
56 1-74818 57 1-75587 58 1-76342 59 1-77085 10 1-77815	48556 79935 20116	72491 62937 42144	39883 28254 19026	13613 65856 065 <b>63</b>	79012 57693 845 <b>3</b> 5	04462 74801 14423	71512 80224 89267	56201 84299 44474	58519 34926 <b>93</b> 076	34637 23823 52155	366845 758244 272857	51

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32134 92633
90874 90718
                                                                7H757
91439
                                                                      11340
76629
                                                                                     703429
                            03388
                                    57485
                                          13757
                                                                              42120
31972
  SII
      1.78532
              98350
                      10767
        79239
                      98253 87468
                                    04429
                                           94842
                                                         90718
               16894
   62
                      54581 70530
                                   24720 65102 86681
                                                         18838 30124
                                                                              71361
                                                                       70535
                                                                39288
      1,80617
               99739 8 1887
                             17128
                                   24333 68346
                                                  95816 06091
      1-81291 33566 42855 57399 27662 63217 83549 40615 39306
                                                                              97304
                                                                       92495
      1-91954 39355 41868 67325 89667 69222
                                                  63257 76750
                                                                20936
                                                                       11925
  66
                             43414
                                    91316 29226
                                                  06858 09496
                                                                26090
                                                                       56861
               48027
                                                  32308 35439
                                                                       34926
52679
                                                                              34800 012234
20531 054711
  68
      1 83250 89127 05236
                            31896
                                   76476 83777
                                                               47141
                                                  30485 88976
                                          15506
      1-83884 90907
                             31616
                                                                39898
                      37255
                                   28050
      1-84509 80400
                     14256 83071 22162 58592 63619
                                                         34835
                                                               72396
                                                                      32396 54065 036350
  70
  71
                                          35045
              83487
                      19075 28609 28294
                                                  42913
                                                         52704
                                                                19901
                                                                       60039
                                                                              19762
                                                               27372
68255
62571
                                                                       76771
3116a
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                                   12724 90683 70969 87048
                                                                              73535
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  73
      1-96332 28601
                     20455 90107
                                    4 0x69 00470
                                                  30853
                                                         44528
      1-86923
                                                         47511
                                                                       62842
                                                                              10879
               17197
                      30976 19202 21895 84263
              12633 91700 04686
                                    75501
                                          13906
                                                  12925 56637
                                                                49101
                                                                       26647
                                                                              87822
      1-88081 35922 80791 35196 38112 65205 91537
1-88649 07251 72481 87146 24162 29835 66043
                                                        14875
51902
                                                               09100
74580
  76
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79041
                                                                              4G815
                                   24162 \\ 52719
                                                                              85011
                                                                              26779
03156
                     90480 40171
                                                                47934
       89209 46026
                                          55921
                                                  93676
                                                        67980
                                                                      039H7
                                                                                     414841
  79
              70912
                                                 24968 64828
                                                               62019
  80
      1 90308 99869 91943 58564
                                    12166
                                          84173 47908 03045 69644
                                                                      38632
                                                                             56239
  81
     1-90848 50188
                     78649 74918 01116
                                          13020 46123 68005 15456 76278
                                                                              34593 194626
              38523 83716 68972 31507
80923 76073 90383 27603
                                                        62987 03515 29579
70016 37658 08063
      1-91381
                                          44692 67382
                                                                             56303
  82
      1491907
                            90383
                                          52027
                                                 26124
                     61881
              92860
                            65043
                                   47219
                                          51296
                                                 73785
                                                        62200 81023
                                                                      43887
                     14292 73332 64309 99603 84400 32391 77496 96293 78560 699410
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                                                                      84220 19558 38176
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                     44912
                                          06510 23061
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                            87459
                                          16534 96462
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32358 90797 26031 32708 964608
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              13923 21093
                           59991
                                   87214
  91
                                                 17560
  92
     1-96378
              79273
                     45555
                            26929
                                   52549
                                          01700
                                   17320 03373 53103
79582 94173 69366
  9.3
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     1.96848
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                     99698
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                                                        69279
 95
     1-97772
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                                   25945
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                                                        30410 78271
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103
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                                                              23496 97603 05647 52801
    2-02938
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109
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                                                                     82798
    2-05307 84434
                                                44818 47783
                                                               23623 62209
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113
                    63419 72279
                                  52270
                                          28609
     2-10380
                                                              63239
127
             37209 55956 86424
                                         21827
                                                 28625 85765
                                                                     79239
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                                                                             BHOST BRIDE.
     2-11727
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                           26081 00542
                                         70697
                                                73859 47801 63117
                                                                      1216± 69689 776335
1.37
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                                         27114
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37222 11012 04865
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                                                84731 44797
                                                               32967
139
                           08045 64332 02319
     2-17318
             62684
                                                 33705
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                           03825
                                   73635
                                          42628
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                    93169
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151
                           43686
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                                                              93428
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             96524 09233
                                                                            95873 59417
157
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                                                28370 50651
                                                              90992
                                                                      78552
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46753 44613 38401
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                                         35925
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208	Н	YPE	RBOLIC	LOG	ARITHMS	ş	Tab. 7.	ı
N.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.	
1:01	0.0089503	1.51	0.4121097	2.01	0.6981347	2:51	Q:9202828	
1.02	0.0198026	1.52	0.4187103	2.02	0.7030075	2.52	7 1 7 1 7 1	П
1:03	0.0295588		0.4252677 0.4317824	2:03	0.7080358	2.53	0.9282193 0.9321641	ш
1.05	0.0392207		0.4382549	2'05	0.7178398	2 55	0.9300934	
1:06	0.0582689	1.56		2.06	0.7227060	2:56	0-9 400073	
	0.0676586	1.57		2.07	0.7275486	2.57	0.9439059	
_	0.0769610		0.4574248	2.08	0.7323679	2.58		
1.00	0.0881777		0·4637340 0·4700036	2·10	0.7371641 0.7419373	2.59	0.9510579	ши
	0.0955102				0.7466879		0 9555114	ľ
1-11	0·1043600 0·1133287	1.61		2.11	0.7400879	2.61 2.62	0.9593502 0.9631743	
1.13	0.1222176	1.63	0.4885800	2.13	0.7561220	2.63	0.9669838	ı
1.14	0.1310283	1.64		2.14	0'7808058	2.64		
1:15	0-1397619	1.65	0.5007753	2.15	0.7654678	2.65	0.97 45596	
1.16	C 1484200	1.66	0-5068176	2-16	0.7701082	2.66		
F-17	0.1570037	1.67	0.5128236		0.7747272	2 67	prompy produ	ı
1.18	0.1655144	1.68 1.69	0.5187938 0.5247285	2.18	0.7793249 0.7839015	2.69	D. O. O. C. C. L. L. O.	ı.
1.19	0 1739533		0.5306283	2.20	0.7884574			
	0.1906204	1.71			0.7929925		0-9969446	1 9
1.22	0.1988509	1.72		2.22	0.7975072			1 6
1-23	0.2070142	1.73			0.8020016			ш
1:24	0.2151114	1:74	,	2.24	0.8064759	2.74		ļ,
1.25	0.2231436	1.75	0.5596158	2.25	0.8109302	2.75	1.0110000	Ł
1:26	0.2311117	1.76		_			1.01001	
1.27	0.2390169	1.77	0.5709795		0.8197798			
1:28 1:29		1·78		_	0.8241754 0.8285518			
1.30	_		0.5877867	2.30		2.80		
1-81	0.2700271	1.81	0.5933268	2:31	0.8372475	2.81	1:0331845	•
1.32	0.2776317	1.82		2-32	0-8415672	2.82		
1:33	0.2851789		0 6043160			1		Н
1.34		1.84						
1.35			0-6151850		0.8544153	_		
1.36		1:86			0°8586616 0°8628899			
1:37	1	1.88					- CHE   0   E	
1.39		1.89	-		فتناط البارات المالية			
1:40	0.3364722	1.90	0.6418539	2.40	0.8754687	2.90		
1:41	0.9435897	1.91	0.6471032	2.41	0.8796267	2.91	1:06%155	d
	0-3500569				0 8837675			
	0.3576745				0.887891			_
	0.3040431				0.8919980 0.8960880			
_					0.9001613			
_	0-3784964 0-3852624			والمتحالية ا	0.9001013		1:085189 1:088561	
	03072024			_	0.9082590		1.001425	_
_	0-3987761		0.6881346	2.40	0 912282		1-095275	
1:50	0 4054651	2.00	00.6931472	2 2.30	0 0 9 1 6 2 9 0 7	13.00	1.052013	1

Tab. 7. HYPERBOLIC LOGARITHMS.											
N.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.				
3·01 3·02	1·1019401 1:1052568	3·51 3·52	1·2556160 1·2584610		1·3887912 1·3912819	4·51 4·52	1·5062971 1·5085120				
3.03	1·1085626 1·1118575	3·53 3·54	1·2612979 1·2641267	4·03 4·04	1·3937664 1·3962447	4·53 4·54	1·5107219 1·5129270				
3-05	1.1151416	3.55	1.2669476	4.05	1.3987169	4.55	1.5151272				
3·06 3·07	1·1184149 1·1216776	3·56 3·57	1·2697605 1·2725656	4·06 4·07	1·4011829 1·4036429	4·56 4·57	1·5173226 1·5195132				
3:08 3:09	1·1249296 1·1281711	3·58 3·59	1·2753628 1·2781522	4·08 4·09	1·4060970 1·4085450	4·58 4·59	1·5216990 1 <b>*93</b> 8800				
5.10	1.1314021	3:60	1.2809338	4.10	1.4109870	4.60	1 <b>·52</b> 60563				
3·11 3·12	1·1346227 1·1378330	3·61 3·62	1·2837078 1·2864740	4·11 4·12	1·4134230 1·4158532	4·61 4·62	1·5282278 1·5303947				
3·13 3·14	1·1410330 1·1442228	3·63 3·64	1·2892326 1·2919837	4·13 4·14	1·4182774 1·4206958	4·63 4·64	1·5325569 1·5347144				
3.12	1.1474025		1.2947272		1.4231083	4.65	1.5368672				
3·16 3·17	1·1505720 1·1537316	3·66 3·67	1 2974631 1·3001917	4·16	1·4255151 1·4279160	4·66 4·67	1·5390154 1·5411591				
3.18	1·1568812 1·1600209	3·68 3·69	1·3029128 1·3056265	4·18 4·19	1.4303112	4·68	1·5432981 1·5454326				
-	1.1631508	3.70			1.4350845		1.5475625				
3·21 3·22	1·1662709 1·1693814	3·71 3·72	1·3110319 1·3137237	4·21 4·22	1·4374626 1·4398351		1·5496879 1·5518088				
3.23	1-1724821	3.73	1.3164082	4.23	1.4422020	4.73	1.5539252				
3·24 3·25	1·1755733 1·1786550	3·74 3·75	1·3190856   1·3217558	4·24 4·25	1·4445633 1·4469190	4.74					
<b>3-2</b> 6 3 <b>-2</b> 7	1·1817272 1·1847900	Į.	1·3244190 1·3270750		1·4492692 1·4516138	4·76 4·77	1·5602476 1·5623463				
3 28	1.1878434	3.78	1.3297240	4.28	1.4539530	4.78	1.5644405				
<b>3·2</b> 9	1·1908876 1·19 <b>3</b> 9225	3·79 3·80	1·3323660 1·3350011	4·29 4·30	1·4562868 1·4586150	4·79 4·80	1·5665303 1·5686159				
3.31	1.1969482		1·3376292 1·3402504	4·31 4·32	1·4609379 1·4632554	4·81	1·5706971 1·5727739				
3·32 3·33	1·1999648 1·2029723	3.83	1.3428648	4.33	1.4655675	4.83	1.5748465				
3·34 3·35	1·2059708 1·2089603	3·84 3·85	1·3454724 1·3480731	4·34 4·35	1·4678743 1·4701758	4·84 4·85	1·5769147 1·5789787				
3.36	1.2119410		1 3506672	4.36	1.4724721	4 86	1.5810384				
3·37 3·38	1·2149127 1·2178757	.3·87 3·88	1·3532545 1·3558352	4·37 4·38	1·4747630 1·4770487	4·87 4·88	1·5830939 1·5851452				
3·39 3·40	1 <b>·22</b> 08299 1 <b>·22377</b> 54	3·89 3·90	1·3584092 1·3609766	4·39 4·40	1·4793292 1·4816045	4·89 4·90	1·5871923 1·5892352				
3.41	1.2267123	3.91	1.3635374	4.41	1.4838747		1.5912739				
3·42 3·43	Ÿ .				1·4861397 1·4883996		1·5933085 1·5953 <b>3</b> 90				
3.44	1·2354715 1·2383742			4·44 4·45	1·4906544 1·4929041		1·5973653 1·5993876				
		_	1.3757130	4.46	1.4953488	4.96	1:6014057				
	1.2441546			4·47 4·48	1·4973884 1·4996230	_	1.6034198 1.6054299				
3.49	1.2499017	3.99	1.3837912	4.49	1.5018527	4.99	1.6074359				
3.20	1 2527030	4.00	1.3802044	4.20	1.2040774	200	1.6094379				

(210	0) 1	IY PI	erboi.ic	LOG	ARITHMS		Tab. 7.	ı
N.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.	
5.01	1.6114359	5-51	1-7055646	6,01	1:7934247	6.51	1.8733395	ı
5.02	1:6134299	5.52	1.7083779	6.02	1.7950873	6.52	1.8749744	ı
	1.6154200	5.53	1.7101878	6.03	1.7967470	6.53	1.8764069	ı
	1.6174061	5.54	1.7119945	6.04	1.7984040	6.54	1.8779372	
5.05	1.6193883	5.55	1.7137979	6.05	1.8000583	6.55	1.8794650	ı
5.08	1.6213665	5.56	1.7155981	0.06	1.8017008	6.56	1.8809900	ı
5.07	1·6233408	5·57 5·58	1.7173951	6·07 6·08	1.8033586	0·57 6·58	1'8825138 I 8640347	ı
5.00	1.6272778	5.59	1.7209793	6.09	1.8066481	6.59	1.8855533	ı
5.10	1.6292405	5.60	17227666	6.10	1.8082888	6.60	1.8870696	ı
5-11	1.6311994	5.61	1.7245507	6.11	1.8099268	6:61	1-8885896	ı
5-12	1.6331544	5.82	1.7263317	6-12	1.8115621	6.62	1.8900034	
5-13		5.63	1.7281094	6.13		6.63	1-8916048	ı
5.14	1.6370531	5.64	1.7298841	6.14	1.8148247	6.64	1-8981130	۱
5-15	1.6389967	5.65	1.7316555	6.15	1.8164521	6.65	1-8940109	
5-16	1.6409366	5.66	1.7334239	6.16	1-8180768	6.66	1 8961195	ı
5-17	1.6428727	5.67	1.7351891	6.17	1.8196988	6 67	1-8976198	ı
5.18	1.6448051	5 68	1.7369512	6.18	1.8213183	6.68	1:8991.50	ı
5.19	1.6467337	5.09	1.7387102	6.19	1.8229351	FEE	1.9000139	ı
5.20	116486586	5.70	1.7404662	6.20	1.8245493	6.70	1:9021075	ı
5.21	1.6505799	5.71	1.7422190	6.21	1.8261600	6-71	1 9033990	ŀ
5.22	1.6524974	5.72	1 7439689	6.22	1.8277699	672	1 9050882	ı
5.23	1.6544113	5.73	1.7457155	6.23		6 73	119005711	ı
5.24	1.6563215	5.74	1.7474599	6.24	1.8309802	6.74	145080399	ı
5.25	1.6582281	5 75	1.7491998	6.25	1.8325815	675	1.50022403	ı
5.26	1.0601310	5.76	1.7509375	6.26	1 8341802	6.76	1.0116230	l
5.27	1.6620304	5.77	1.7526721	0.27	1.8357764	-	1.0122011	ı
5.28	1.6639261	5.78	1.7544037	6.28	1.8373700	0.78	1.9139771	ł
5.29	1 6658182	5·79 5·80	1.7561323 1.7578579	6·29 6·30	1.8389611	679	1-9154509	
		_						t
5.31	1.6695918	5.81	1.7595800	6.91	1.8421357	6.81	1-9183921	
	1.6714733	5·82 5·83	1.7613003	1	1.8437192	6.83	1-9198 <b>595</b> 1-9213 <b>247</b>	
5.34	1-6752257	5.84	1.7647308		1.8468788	6.84	1.9227877	
5.35	1.6770966	5.85	1.7664416		1.8484548	W 8 5	1-9242487	
5.36	1.6789640	5.86	1.7681496		1.8500284		1-9257074	н
5.37	1.6808279	5.87	1.7698546		1.8515995	6.87	1.927104	11
5.38	1.6826884	5.88	1.7715568		1.8531681	6.88	1-9286187	41
5.39	1.6845454	5.89	1.7732560	6.39	1.8547343	6.89	1.9300711	
5.40	1.6863990	5.90	1.7749524	6.40	1.8562980	0.50	1-9315214	ł
5.41	1.6882491	5.91	1.7766458	6.41	1.8578593	6.91	1-9329696	H
	1.6900958					_		
	1.6919391	5.93	1.7800242	_	1.8600745	6-93	1:9358598	3
التناكا	1.6937791		1.7817091		1-8625285		1-9375018	•
5.45	1.6956156	5.95	1.7833912		1.8640801	6.95	1-9387417	1
5.46	1 6974488	5.96	1.7850705		1'8656293		1-9401793	
	1.0992786		1.7867469		1.8671761			
	1.7011051	5.98	1.7594206	_			1-945045	
			1.7900914					
2.20	17047481	1000	1-191/595	וטקיטו	1.8718022	7 00	1.2423910	1

Tat	D. 7. I	IYP)	ERBOLIC	LOG	ARITHMS	3.	(211)
N.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.
7-01	1.9473377	7.51	2.0162355	8.01	2.0806908	8.51	2.1412419
7.02	1.9487632	7.52	2.0175661	8.02	2.0819384	8.52	2.1424163
7.03	1.9501867	7.53	2.0188950	8.03	2.0831845	8.53	2.1435894
7.04	1.9516082	7.54	2.0202222	8.04	2.0844291	8.54	2.1447610
7.05	1.9530276	7.55	2.0215476	8.05	2.0856721	8.55	2.1459313
7.06	1.9544451	7.56		8.06	2.0869136	8.56	2-1471002
7-07	1.9558605 1.9572739	7·57 7·58	2·0241931 2·02551 <b>3</b> 2	8·07 8·08	2·0881535 2·089 <b>3</b> 919	8·57 8·58	2-1482677
7.09	1.9586853	7.59	2.0253132	8.00	2.0906287	8.59	2·1494340 2·1505988
7.10	1.9600948	7.60	2.0281482	8.10	2.0918641	8.60	2.1517622
7.11	1.9615022	7.61	2.0294632	8-11	2.0930979	8.61	2.1529244
7-12	1.9629077	7.62	2.0307764	8.12	2.0943301	8.62	2.1540851
7.13	1.9643112	7.63	2.0320878	8.13	2.0955609	8.63	2.1552445
7.14	1.9657128	7.64	2.0333976	8.14	2.0967901	8.64	2.1564026
7-15	1.9671124	7.65	2.0347056	8.15	20980179	8.65	2.1575593
7.16	1.9685100	7.66	2.0360120	8.16	2.0992442	8.66	2.1587147
7.17	1.9699056	•	2·0373166		2.1004689	8.67	<b>2</b> ·1598 <b>6</b> 88
7.18	1.9712994		2.0386195			8.68	<b>2</b> ·1610215
7.19		_	2.0399208	8.19	2.1029139	8.69	2.1621729
7.20	1.9740810	7.70	2.0412203	8.20	2.1041342	8.70	2.1633230
7-21	1.9754690	7.71	2.0425182	8.21	2.1053529	8.71	2.1644718
7-22	1.9768550	7.72	2.0438144	8·22 8·23	2·1065702 2·1077860	8.72	2.1656192
7-23 7-24	1·9782390 1·9796212	7.73	2·0451089 2·0464017	8.24	2.1077800	8·73 8·74	2·1667654 2·1679102
7.25	1.9810015	7.75	2.0476928	8.25	2.1102125	8.75	2·1690537
7-26	1.9823798	7.76	2.0489823	8.26	2.1114246	8.76	2.1701959
7-27	1.9837563	7.77	2.0502702	8.27	2.1126345	8.77	2.1713368
7-28	1.9851309	7.78	2.0515563	8.28	2.1138430	8.78	2.1724764
7-29	1.9865035	7.79	2.0528409	8.29	2.1150500	8.79	2-1736147
7-30	1-9878743	7.80	2-0541237	8.30	2.1162555	8.80	2.1747517
7-31	1.9892433	7.81	2.0554050	8.31	2-1174596	8.81	2.1758874
7.32	1.9906103	7.82	2.0566846	8.32	2-1186623	8.82	<b>2·177</b> 0219
7.33	1.9919755	7.83	2.0579625	8.33	2.1198634	8.83	2.1781550
7.34	1.9933398	7.84	2.0592388	8.34	2.1210632	8.84	21792869
7.35	1.9947003	7.85	2.0605135	8.35	2.1222615	8.85	2.1804175
7.36	1.9960599	7.86	2.0617866	8.36	2.1234584	8.86	2.1815468
7·37 7·38	1·9974177 1·9987736	7·87 7·88	2·0630581 2·0643279	8·37 8·38	2·1246539 2·1258479	8·87 8·88	2·1826748 2·1838016
7.39	2.0001277	7.89	2·0655961	8.39	2.1270405	8.89	2.1849270
7.40	2.0014800	7.90	2.0668628	8.40	2.1282317	8.90	2.1860513
7.41	2.0028304		2.0681278	8.41	2.1294215	8-91	2.1871742
7.42	<b>6</b>		20693912		2.1306098	8.92	2.1882959
7.43	2.0055259		2-0706530		2.1317968	8.93	2.1894164
2	2.0068708		2.0719133		2.1329823	8.94	2.1905356
7.45	2.0082140	7.95	2.0731719	8.45	2.1341664	8.95	2.1916535
7.46	2.0095554	_	2.0744290		2.1353492		2.1927702
7.47	<b>2·</b> 0108950	-			2.1365305		2.1938857
7.48	2.0122328	l	2.0769384	1	2.1377104		2.1949999
1	2.0135688		2.0781907	8.49	2·1388890 2·1400662	_	2·1961128
(1.30	2-0149030	1000	20194413	0 30	2 1400002 9 K		2-1972246

9·02         2·1994443         9·37         2·2375131         9·72         2·2741856           9·03         2·2005524         9·38         2·2385797         9·73         2·2752139           9·04         2·2016592         9·39         2·2396453         9·74         2·276241           9·05         2·2027648         9·40         2·2407097         9·75         2·278292           9·07         2·2049723         9·42         2·2428351         9·77         2·279316           9·08         2·2060742         9·43         2·2438961         9·78         2·280339           9·09         2·2071749         9·44         2·2440560         9·79         2·281361           9·10         2·2082744         9·45         2·2460147         9·80         2·282382           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2104698         9·47         2·2481289         9·82         2·284421           9·13         2·2136604         9·49         2·2502386         9·84         2·286455           9·15         2·2137539         9·50         2·2512918         9·85         2·288486           9·17         2·218462	(219	2)* HYP	ERB	OLIC LOG	ARITH!	rs. Tab. 7.
9·02         2·1994443         9·37         2·2375131         9·72         2·2741856           9·03         2·2005524         9·38         2·2385797         9·73         2·2752139           9·04         2·2016592         9·39         2·2396453         9·74         2·276241           9·05         2·2027648         9·40         2·2407097         9·75         2·278292           9·07         2·2049723         9·42         2·2428351         9·77         2·279316           9·08         2·2060742         9·43         2·2438961         9·78         2·280339           9·09         2·2071749         9·44         2·2449560         9·79         2·281361           9·10         2·2082744         9·45         2·2460147         9·80         2·282382           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2104698         9·47         2·2481289         9·82         2·284421           9·13         2·21357539         9·50         2·2512918         9·85         2·285438           9·15         2·2137539         9·50         2·2533947         9·87         2·289499           9·19         2·2181159	N.	Logar.	N.	Logar.	N.	Logar.
9·03         2·2005524         9·38         2·2385797         9·73         2·2752136           9·04         2·2016592         9·39         2·2396453         9·74         2·276241           9·05         2·2027648         9·40         2·2407097         9·75         2·2772673           9·06         2·2038691         9·41         2·2417729         9·76         2·278292           9·07         2·2049723         9·42         2·2428351         9·77         2·2793163           9·09         2·2071749         9·43         2·2438961         9·78         2·280339           9·09         2·2071749         9·44         2·2440560         9·79         2·281361           9·10         2·2082744         9·45         2·2460147         9·80         2·282382           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2104698         9·47         2·2481289         9·82         2·284421           9·13         2·213657         9·48         2·2491843         9·83         2·285438           9·15         2·2137539         9·50         2·2512918         9·85         2·286455           9·17         2·2159373	9.01	2.1983351	9.36	2.2364453	9.71	· 2·2731563
9.04         2.2016592         9.39         2.2396453         9.74         2.2276241           9.05         2.2027648         9.40         2.2407097         9.75         2.22772673           9.06         2.2038691         9.41         2.2417729         9.76         2.278292           9.07         2.2049723         9.42         2.2428351         9.77         2.22793163           9.08         2.2060742         9.43         2.2438961         9.78         2.2280339           9.09         2.2071749         9.44         2.2440560         9.79         2.281361           9.10         2.2082744         9.45         2.2460147         9.80         2.282382           9.11         2.2093727         9.46         2.2470724         9.81         2.2283402           9.12         2.2104698         9.47         2.2481239         9.82         2.284421           9.13         2.2115657         9.48         2.2491843         9.83         2.285438           9.14         2.2126604         9.49         2.2502386         9.84         2.286455           9.15         2.2137539         9.50         2.2512918         9.85         2.288486           9.17         2.218462	9.02	2.1994443	9 37	2.2375131	9.72	2.2741856
9·05         2·2027648         9·40         2·2407097         9·75         2·277267:           9·06         2·2038691         9·41         2·2417729         9·76         2·278292           9·07         2·2049723         9·42         2·2428351         9·77         2·279316           9·08         2·2060742         9·43         2·243861         9·78         2·280339           9·09         2·2071749         9·44         2·2449560         9·79         2·281361           9·10         2·2082744         9·45         2·2460147         9·80         2·283482           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2104698         9·47         2·2481289         9·82         2·284421           9·13         2·2115657         9·48         2·2491843         9·83         2·285438           9·14         2·2126604         9·49         2·2502386         9·84         2·286455           9·15         2·2137539         9·50         2·2512918         9·85         2·288486           9·17         2·218462         9·51         2·2533947         9·87         2·288486           9·18         2·2170272	9.03	2.2005524	9.38	2.2385797		2.2752139
9·06         2·2038691         9·41         2·2417729         9·76         2·278292           9·07         2·2049723         9·42         2·2428351         9·77         2·279316           9·08         2·2060742         9·43         2·2438961         9·78         2·280339           9·09         2·2071749         9·44         2·2449560         9·79         2·281361           9·10         2·2082744         9·45         2·2460147         9·80         2·283402           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2115657         9·48         2·2491843         9;83         2·285438           9·14         2·2126604         9·49         2·2502386         9·84         2·286455           9·15         2·2137539         9·50         2·2512918         9·85         2·287471           9·16         2·2148462         9·51         2·2523439         9·86         2·288486           9·17         2·2159373         9·52         2·2533947         9·87         2·289499           9·18         2·2170272         9·53         2·25544446         9·88         2·290512           9·29         2·2181159	9.04	2.2016592	9.39	2.2396453	_	2.2762411
9·07       2·2049723       9·42       2·2428351       9·77       2·2793163         9·08       2·2060742       9·43       2·2438961       9·78       2·2803393         9·09       2·2071749       9·44       2·2449560       9·79       2·2813613         9·10       2·2082744       9·45       2·2460147       9·80       2·2834023         9·11       2·2093727       9·46       2·2470724       9·81       2·2834023         9·12       2·2104698       9·47       2·2481289       9·82       2·2844213         9·13       2·2156604       9·49       2·2502386       9·84       2·2864553         9·15       2·2137539       9·50       2·2512918       9·85       2·2874713         9·16       2·2148462       9·51       2·2523439       9·86       2·2884863         9·17       2·2159373       9·52       2·253494       9·87       2·2894999         9·18       2·2170272       9·53       2·2544446       9·88       2·2905123         9·19       2·2181159       9·54       2·2553947       9·89       2·291524         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21	9.05	2.2027648	9.40	2.2407097	9.75	, <b>2·277</b> 2673
9.08         2.2060742         9.43         2.2438961         9.78         2.2803393           9.09         2.2071749         9.44         2.2449560         9.79         2.2813613           9.10         2.2082744         9.45         2.2460147         9.80         2.282382           9.11         2.2093727         9.46         2.2470724         9.81         2.283402           9.12         2.2104698         9.47         2.2481239         9.82         2.284421           9.13         2.215657         9.48         2.2491843         9.83         2.285438           9.14         2.2126604         9.49         2.2502386         9.84         2.286455           9.15         2.2137539         9.50         2.2512918         9.85         2.2874713           9.16         2.2148462         9.51         2.2523439         9.86         2.288486           9.17         2.2159373         9.52         2.2533947         9.87         2.288486           9.19         2.2181159         9.54         2.2554935         9.89         2.291524           9.20         2.2192035         9.55         2.25565411         9.90         2.292534           9.21         2.2202898	9.06	2-2038691	9.41	2.2417729	9.76	2.2782924
9·09         2·2071749         9·44         2·2449560         9·79         2·2813613           9·10         2·2082744         9·45         2·2460147         9·80         2·282382           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2104698         9·47         2·2481239         9·82         2·284421           9·13         2·215657         9·48         2·2491843         9;83         2·285438           9·14         2·2126604         9·49         2·2502386         9·84         2·286455           9·15         2·2137539         9·50         2·2512918         9·85         2·287471           9·16         2·2148462         9·51         2·2523439         9·86         2·288486           9·17         2·2159373         9·52         2·2533947         9·87         2·289499           9·18         2·2170272         9·53         2·2544446         9·88         2·290512           9·19         2·2181159         9·54         2·2554935         9·89         2·291524           9·20         2·2192035         9·55         2·2575877         9·91         2·293544           9·21         2·2202898	9.07	2.2049723	9.42	2.2428351	9.77	2.2793165
9·10         2·2082744         9·45         2·2460147         9·80         2·282382           9·11         2·2093727         9·46         2·2470724         9·81         2·283402           9·12         2·2104698         9·47         2·2481289         9·82         2·284421           9·13         2·2115657         9·48         2·2491843         9;83         2·285438           9·14         2·2126604         9·49         2·2502386         9·84         2·286455           9·15         2·2137539         9·50         2·2512918         9·85         2·287471           9·16         2·2148462         9·51         2·2523439         9·86         2·288486           9·17         2·2159373         9·52         2·2533947         9·87         2·289499           9·18         2·2170272         9·53         2·2544446         9·88         2·290512           9·19         2·2181159         9·54         2·2554935         9·89         2·291524           9·20         2·2192035         9·55         2·2565411         9·90         2·292534           9·21         2·2202898         9·56         2·257587         9·91         2·293544           9·22         2·2213750	9-08	2.2060742	9.43	2-2438961	9.78	<b>2</b> ·280 <b>33</b> 95
9·11       2·2093727       9·46       2·2470724       9·81       2·283402         9·12       2·2104698       9·47       2·2481289       9·82       2·284421         9·13       2·2115657       9·48       2·2491843       9;83       2·285438         9·14       2·2126604       9·49       2·2502386       9·84       2·286455         9·15       2·2137539       9·50       2·2512918       9·85       2·287471         9·16       2·2148462       9·51       2·2523439       9·86       2·288486         9·17       2·2159373       9·52       2·2533947       9·87       2·2894996         9·18       2·2170272       9·53       2·2544446       9·88       2·290512         9·19       2·2181159       9·54       2·2554935       9·89       2·291524         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·295560         9·26       2·22	9.09	2.2071749	9.44	2.2449560	9.79	2.2813615
9·12       2·2104698       9·47       2·2481289       9·82       2·284421         9·13       2·2115657       9·48       2·2491843       9;83       2·285438         9·14       2·2126604       9·49       2·2502386       9·84       2·286455         9·15       2·2137539       9·50       2·2512918       9·85       2·287471         9·16       2·2148462       9·51       2·2523439       9·86       2·288486         9·17       2·2159373       9·52       2·2533947       9·87       2·289499         9·18       2·2170272       9·53       2·2544446       9·88       2·290512         9·19       2·2181159       9·54       2·2554935       9·89       2·291524         9·20       2·2192035       9·55       2·2575877       9·91       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·295560         9·24       2·2235419       9·59       2·2607209       9·94       2·296567         9·27       2·226	9.10	2.2082744	9.45	2-2460147	9.80	2-2825824
9·13       2·2115657       9·48       2·2491843       9;83       2·2854389         9·14       2·2126604       9·49       2·2502386       9·84       2·286455         9·15       2·2137539       9·50       2·2512918       9·85       2·287471         9·16       2·2148462       9·51       2·2523439       9·86       2·288486         9·17       2·2159373       9·52       2·2533947       9·87       2·2894996         9·18       2·2170272       9·53       2·2544446       9·88       2·290512         9·19       2·2181159       9·54       2·2554935       9·89       2·291524         9·20       2·2192035       9·55       2·2575877       9·91       2·292534         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·21       2·2202898       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2576775       9·93       2·295560         9·24       2·2235419       9·59       2·2607209       9·94       2·296567         9·25       2·2246236       9·60       2·2617631       9·95       2·299580         9·27       2·22	9.11	2.2093727	9.46	2.2470724	9.81	2.2834023
9·14       2·2126604       9·49       2·2502386       9·84       2·286455         9·15       2·2137539       9·50       2·2512918       9·85       2·2874713         9·16       2·2148462       9·51       2·2523439       9·86       2·2884862         9·17       2·2159373       9·52       2·2533947       9·87       2·2894999         9·18       2·2170272       9·53       2·2544446       9·88       2·290512         9·19       2·2181159       9·54       2·2554935       9·89       2·291524         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·295560         9·24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2995500         9·27       2·2267834       9·62       2·2638443       9·97       2·2995500         9·29 <td< td=""><td>9.12</td><td>2.2104698</td><td>9.47</td><td>2.2481289</td><td>9.82</td><td>2.2844211</td></td<>	9.12	2.2104698	9.47	2.2481289	9.82	2.2844211
9·15       2·2137539       9·50       2·2512918       9·85       2·2874713         9·16       2·2148462       9·51       2·2523439       9·86       2·2884863         9·17       2·2159373       9.52       2·2533947       9·87       2·2894993         9·18       2·2170272       9·53       2·2544446       9·88       2·2905123         9·19       2·2181159       9·54       2·2554935       9·89       2·2915243         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2975726         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·30	9-13	2.2115657	9.48	2.2491843	9;83	2.2854389
9·16       2·2148462       9·51       2·2523439       9·86       2·2884862         9·17       2·2159373       9.52       2·2533947       9·87       2·2894993         9·18       2·2170272       9·53       2·2544446       9·88       2·2905123         9·19       2·2181159       9·54       2·2554935       9·89       2·2915243         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·2935444         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2975726         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995800         9·29       2·2289385       9·64       2·2659211       9·99       2·3015840         9·31	9.14	2.2126604	9.49	2.2502386	9.84	2.2864557
9·17       2·2159373       9.52       2·2533947       9·87       2·2894999         9·18       2·2170272       9·53       2·2544446       9·88       2·290512         9·19       2·2181159       9·54       2·2554935       9·89       2·291524         9·20       2·2192035       9·55       2·2565411       9·90       2·292534         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2975720         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995800         9·29       2·2289385       9·64       2·2659211       9·99       2·3015840         9·31       2·2310891       9·66       2·2679936       10·00       4·6051702         9·32       <	9.15	2.2137539	9.50	2.2512918	9.85	2.2874715
9·18       2·2170272       9·53       2·2544446       9·88       2·2905124         9·19       2·2181159       9·54       2·2554935       9·89       2·2915244         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·2935444         9·22       2·2213750       9·57       2·2586332       9·92       2·2945524         9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965676         9·25       2·2246236       9·60       2·2617631       9·95       2·2975726         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995806         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·30       2·2300144       9·65       2·2659211       9·99       2·3015846         9·31       2·2310891       9·66       2·2679936       10·00       4·6051702         9·32	9.16	2-2148462	9.51	2·2523 <b>43</b> 9	9.86	2.2884862
9·19       2·2181159       9·54       2·2554935       9·89       2·2915241         9·20       2·2192035       9·55       2·2565411       9·90       2·2925344         9·21       2·2202898       9·56       2·2575877       9·91       2·293544         9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965676         9·25       2·2246236       9·60       2·2617631       9·95       2·2975726         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995806         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·29       2·2289385       9·64       2·2659211       9·99       2·3015846         9·31       2·2310891       9·65       2·2669579       10·00       4·6051702         9·32       2·2321626       9·67       2·2690283       1000       6·9077555	9.17	2.2159373	9.52	2.2533947	9.87	2.2894999
9·20         2·2192035         9·55         2·2565411         9·90         2·2925344           9·21         2·2202898         9·56         2·2575877         9·91         2·293544           9·22         2·2213750         9·57         2·2586332         9·92         2·294552           9·23         2·2224590         9·58         2·2596775         9·93         2·2955605           9·24         2·2235419         9·59         2·2607209         9·94         2·2965670           9·25         2·2246236         9·60         2·2617631         9·95         2·2975720           9·26         2·2257040         9·61         2·2628042         9·96         2·2985772           9·27         2·2267834         9·62         2·2638443         9·97         2·2995800           9·28         2·2278615         9·63         2·2648832         9·98         2·3005851           9·29         2·2289385         9·64         2·2659211         9·99         2·3015846           9·31         2·2310891         9·66         2·2679936         10·00         4·6051702           9·32         2·2321626         9·67         2·2690283         1000         6·9077555	9.18	2.2170272	9.53	2.2544446	9.88	2.2905125
9.21       2.2202898       9.56       2.2575877       9.91       2.2935444         9.22       2.2213750       9.57       2.2586332       9.92       2.294552         9.23       2.2224590       9.58       2.2596775       9.93       2.295560         9.24       2.2235419       9.59       2.2607209       9.94       2.2965670         9.25       2.2246236       9.60       2.2617631       9.95       2.2975720         9.26       2.2257040       9.61       2.2628042       9.96       2.298577         9.27       2.2267834       9.62       2.2638443       9.97       2.2995800         9.28       2.2278615       9.63       2.2648832       9.98       2.300583         9.29       2.2289385       9.64       2.2659211       9.99       2.3015840         9.31       2.2310891       9.65       2.2679936       10.00       4.6051702         9.32       2.2321626       9.67       2.2690263       1000       6.9077553	9.19	2.2181159	9.54	2·255 <b>4</b> 9 <b>3</b> 5	9.89	2.2915241
9·22       2·2213750       9·57       2·2586332       9·92       2·294552         9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2975720         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995800         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·29       2·2289385       9·64       2·2659211       9·99       2·3015840         9·30       2·2300144       9·65       2·2669579       10·00       2·3025851         9·31       2·2310891       9·66       2.2679936       100·0       4·6051702         9·32       2·2321626       9·67       2·2690283       1000       6·9077555	9.20	2.2192035	9.55	2.2565411	9.90	2-2925348
9·23       2·2224590       9·58       2·2596775       9·93       2·2955603         9·24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2975720         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995800         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·29       2·2289385       9·64       2·2659211       9·99       2·3015840         9·31       2·2310891       9·65       2·2679936       10·00       4·6051702         9·32       2·2321626       9·67       2·2690283       1000       6·9077553	9.21	2.2202898	9.56	2.2575877	9.91	2.2935444
9.24       2·2235419       9·59       2·2607209       9·94       2·2965670         9·25       2·2246236       9·60       2·2617631       9·95       2·2975720         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995800         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·29       2·2289385       9·64       2·2659211       9·99       2·3015840         9·30       2·2300144       9·65       2·2669579       10·00       2·3025851         9·31       2·2310891       9·66       2·2679936       100·0       4·6051702         9·32       2·2321626       9·67       2·2690283       1000       6·9077553	9.22	2.2213750	9.57	2·25863 <b>3</b> 2	9.92	2-2945529
9·25       2·2246236       9·60       2·2617631       9·95       2·2975726         9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995806         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·29       2·2289385       9·64       2·2659211       9·99       2·3015846         9·30       2·2300144       9·65       2·2669579       10·00       2·3025851         9·31       2·2310891       9·66       2.2679936       100·0       4·6051702         9·32       2·2321626       9·67       2·2690283       1000       6·9077553	9.23	2-2224590	9.58	2.2596775	9·9 <b>3</b>	2.2955605
9·26       2·2257040       9·61       2·2628042       9·96       2·2985771         9·27       2·2267834       9·62       2·2638443       9·97       2·2995806         9·28       2·2278615       9·63       2·2648832       9·98       2·3005831         9·29       2·2289385       9·64       2·2659211       9·99       2·3015846         9·30       2·2300144       9·65       2·2669579       10·00       2·3025851         9·31       2·2310891       9·66       2.2679936       100·0       4·6051702         9·32       2·2321626       9·67       2·2690263       1000       6·9077553	9.24	2.2235419	9.59	2.2607209	9.94	2-2965670
9·27       2·2267834       9·62       2·2638443       9·97       2·2995806         9·28       2·2278615       9·63       2·2648832       9·98       2·300583         9·29       2·2289385       9·64       2·2659211       9·99       2·3015846         9·30       2·2300144       9·65       2·2669579       10·00       2·302585         9·31       2·2310891       9·66       2.2679936       100·0       4·6051702         9·32       2·2321626       9·67       2·2690263       1000       6·9077553	9.25	2.2246236	9.60	2.2617631	9.95	2.2975726
9.28       2.2278615       9.63       2.2648832       9.98       2.300583         9.29       2.2289385       9.64       2.2659211       9.99       2.3015846         9.30       2.2300144       9.65       2.2669579       10.00       2.302585         9.31       2.2310891       9.66       2.2679936       100.0       4.6051702         9.32       2.2321626       9.67       2.2690283       1000       6.9077553	9.26	2-2257040	9.61	2.2628042	9.96	2.2985771
9·29     2·2289385     9·64     2·2659211     9·99     2·3015846       9·30     2·2300144     9·65     2·2669579     10·00     2·3025851       9·31     2·2310891     9·66     2.2679936     100·0     4·6051702       9·32     2·2321626     9·67     2·2690283     1000     6·9077553	9.27	2.2267834	9.62	2.2638443	9.97	2.2995806
9·29     2·2289385     9·64     2·2659211     9·99     2·3015846       9·30     2·2300144     9·65     2·2669579     10·00     2·3025851       9·31     2·2310891     9·66     2.2679936     100·0     4·6051702       9·32     2·2321626     9·67     2·2690283     1000     6·9077553		2.2278615	9.63		9.98	23005851
9·30     2·2300144     9·65     2·2669579     10·00     2·3025851       9·31     2·2310891     9·66     2.2679936     100·0     4·6051702       9·32     2·2321626     9·67     2·2690283     1000     6·9077553	_	2-2289385			9.99	2.3015846
9.32 2.2321626 9.67 2.2690283 1000 6.9077553		2.2300144	9.65	2.2669579	10.00	2.3025851
9.32 2.2321626 9.67 2.2690283 1000 6.9077553	9.31	2.2310891	9.66	2.2679936	100.0	4.6051702
					1000	6.9077553
						9-2103404
9.34 2.2343062 9.69 2.2710944 100000 11.51292546			_	1 .	100000	11.51292546
9.35 2.2353763 9.70 2.2721259	_					

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2 0.6931472 52 3.9512437 102 4.6249728 152 3 1.0986123 53 3.9702919 103 4.6347290 153	Logar.  5.0172798  5.0238805  5.0304379  5.0369526  5.0434251
2 0.6931472 52 3.9512437 102 4.6249728 152 3 1.0986123 53 3.9702919 103 4.6347290 153	5·0238805 5·0304379 5·0369526
3 1.0986123 53 3.9702919 103 4.6347290 153	5·0304379 5·0369526
	5.0369526
4\1·3862944  54\3·9889840\104\4·6443909\154\	
	5.0434251
	5.0498560
	5.0562458
	5.0625950
	5.0689042 5.0751738
	5·0814044 5·0875963
	5·0937502
	5.0998664
	5.1059455
	5.1119878
	5.1179938
	5.1239640
	5.1298987
<b>20 2.995</b> 7323 70 4.2484952 120 4.7874917 170	5.1357984
21 3-0445224 71 4-2626799 121 4-7957905 171	5.1416636
	5.1474945
<b>25   3</b> ·1354942   73   4·2904594   123   <b>4</b> ·8121844   173	5.1532916
	5.1590553
<b>25</b> 3·2188758 75 4·3174881 125 4·8283137 175	5.1647860
<b>26</b> 3·2580965 76 4·3307333 126 4·8362819 176	5.1704840
	5.1761497
	5.1817836
	5.1873858
30 3.4011974 80 4.3820266 130 4.8675345 180	5.1929569
31 3.4339872 81 4.3944492 131 4.8751973 181	5.1984970
	5.2040067
	5·2094862 5·2149358
	5·2203558
	5.2257467
	5.2311086
	5.2364420
1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	5.2417470
	5.2470241
	5.2522734
1 11 3 11 3 1 2 1 3 1 3 1 3 1 3 1 3 1 3	5.2574954
43 3.7612001 93 4.5325995 143 4.9628446 193	5.2626902
44 3.7841896 94 4.5432948 144 4.9698133 194	5.2678582
45 3.8066625 95 4.5538769 145 4.9767337 195	5.2729996
1 40 3 0200414  30 4 0030102 -10	5.2781147
47 3.8501476 97 4.5747110 147 4.9904326 197	5.2832037
40,50,120,10	5-2882670
, 10 0 0 10 00 1 00 1 00 1 00 1	5·2933048
50 3.9120230 100 4.6051702 150 5.0106353 200	5.2983174

	(21	4)*	HYP	ERBOLIC	LOC	BARITHM:	8	Tab. 8.
	N.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.
	201	5.3033049	251	5.5254529	301	5-7071103	351	5.8607862
	202	5.3082677	252	5.5294291	302	5.7104270	352	5.8636312
	203	5.3132060	253	5.5333895	303	5-7137328	353	5'8664681
	204	5.3181200	254	5.5373343	\$04	5.7170277	354	5 8692969
,	205	5.3230100	255	5.5412635	305	5 7203118	355	5.8721178
ı	206	5-3278762	256	5.5451774	306	5 7235851	1000	5-8749307
Į	207	5.3327168	257	5.5490761	307	5.7268477	357	5-8777338
	208	5-3375381	258	5.5529596	308	5.7300998	358.	W-8-342 ( 10)
	209	5.3423343	259	5.5568281	309		359	5-8853224
	210	5.3471075	260	5.5606816	310	5.7365723	SECTION	5-8861040
	211	5.3518581	261	5.5645204	911	5.7397929	361	5-8888790
	212	5.3565863	262	5.5683445	312		362	5-8916442
	213	5/3612922	263	5.5721540	313	5.7462032	363	5.8944025
	214	5:3659760	264	5.5759491	314		364	5.897 (539
	215	5.3706380	265	5.5797298	315	5.7525726	365	5-8996974
	216	5.3752784	266	5.5834963	316	5-7557422	366	5-9020333
	217	5.3798974	267	5.5872487	317	5.7589018	307	5-9053618
	218	5.3844951	268	5 5909870	318	5 70 20 514	368	5-9080829
ı	219	5-3890717	269	5.5947114	319	5.7651911	309	5-9107966
ı	220	5:3936275	270	5 5 9 8 4 2 2 0	320	5.7683210	370	5.9135030
ı	221	5.3981627	271	5-6021188	321	5-7714411	371	5-9162021
ı	222	5.4026774	272	5.6058021	322	5.7745515	372	5.9188939
ı	223	5.4071718	273	5.6094718	323	57776523	373	5-9215784
ı	224	5.4116461	274	5.6131281	324	5.7807435	374	3-9242558
ı	225	5.4101004	275	5'0167711	325	5-7838252	375	5-9269260
ı	226	5-4205350	276	5.6204009	MISSE	5.7868974	376	5-9295891
	227	5-4249500	277	5.6240175	327	5.7899602	377	5.9322452
ı	228	5.4293456	NAME OF	5.6276211	328	5.7930136	378	5-9348942
ı	229	5.4337220	279	5.6312118		5.7960578	379	5-9375302
ı	230	5-4380793	280	5.6347896	330	5'7990927	\$80	5-9401713
ł	231	5-4424177	281	5.6383547	BEET I	5-8021184	381	5-94/27994
ı	232	5'4467374	282	5.6419071	232	5.8051350	382	5-9434206
ı	233	5.4510385	283	5.6454469	333	5.8081425	¥93.	5-9480350
ı	234	5.4553211	284	5.6489742	334	5'8111410	384	5-9506426
ı	235	5.4505855	285	5.6524892	335	5.8141305	385	5-9532433
ı	236	5:4638318	286	5-6559918	H MES	5.8171112	380	5-9558374
ı	237	5.4680601	BARR	5.6594822	337	5.8200829	387	5 9584247
Ì	238	5-4722707	200	5.6629605		5.8230459	399	5-9610053
ı	239	5.4764636	289	5.6664267	339	5.8260001	389	5-9655793
ı	240	5.4806380	100	5.0698809	340	5.8289456	390	5.900.467
ł	241	5.4847969	291	5.6733233	341	5-8318825	901	5-9687016
	2+2	5.4889377		5.6767538	_	5.8348107		5-971 2618
_	243	5.4950614		5.6801726	_			5-9795098
-	214	5-4971682	294	5.6835798	_	5.8400417		5 w763309
-1	215	5.5012582	295	5.6869754	345		393	
Ì	216	5.5053315	296	5-6903595	346	5 8464388		5-9814 42
-	247	5.3093883	297	5-6937321	347	5.8493248		5-9899905
ш	248	5.5134287		5.6970935	348	5.8322025		5 1/804520
	249		_	5.7004436		5-8550719		5-988 (614
	230	5-3214609	\$00	5.7037825		5.8579332	400	3.9914643
I	-							

1/01/13

N.	Logar.						
401		N.	Logar.	N.	Logar.	N.	Logar.
1 1	5.9939614	451		501	6.2166061	551	6.3117348
402	5.9964521	452				552	6.3135480
	5.9989366 6.0014149	453 454		503	_	553	6.3153580
	6.0038871	455		504 505	_	554 555	6·3171647 6·3189681
	6.0063532	456				1	
	6·00881 <b>3</b> 2	457		507	6-2265367 6-2285110	5 <b>56</b> 5 <b>57</b>	6·3207683 6·3225652
,	6.0112672	458				558	<b>6</b> ·32 <b>43</b> 590
	6-0137152	459		509		559	6.3261495
410	6.0161572	460	6-1312265	510	6-2344107	560	6-3279368
	6-0185932	461	6.1333980	511	6-23636 <b>96</b>	561	6.3297209
		462			_	562	
	6.0234476		6.1377271		0.2402758	563	0.3332796
1 1	6.0258660 6.0282785	465	6·1398846 6·1420374	514 515	6·2422233 6·2441669	5 <b>04</b> 5 <b>0</b> 5	<b>6·3</b> 3 <i>5</i> 0545 <b>6·3</b> 368257
1 1	6-0306853	466					_
1 1	6.0330862	467			6 <b>·24</b> 61068 6 <b>·24</b> 80429	566 567	<b>0</b> -3385941 <b>6</b> -3403 <i>5</i> 93
<b>—</b> — - ]	6.0354814		6.1484683		6.2499752		6.3421214
	6-0378709		6.1506028		_	569	6.3438804
420	6.0402547	470	d·1527 <b>32</b> 7			570	6.3456364
421	6.0426328	471	6.1548581	521	6.2557500	<i>57</i> 1	6-3473892
1 1			6-1569790		6.2576676	572	6.3491390
		I 1	6.1590954		_	573	6.3508857
424 425	<b>6</b> ·0497335 <b>6</b> ·0520892	475	6·1612073 6·16 <b>3</b> 3148		6·2614917 6·2633983	574 575	6-3526294
1		1		1			6.3543700
<b>4</b> 7	<b>6</b> ·0544393 <b>6</b> ·0567840	477	6·1654179 6·1675165	520	<b>6-2653</b> 012 <b>6-2672005</b>	570 577	6.3561077
	<b>6</b> ·0591232	1	6.1696107			578	6·3578423 6·3595739
	6.0614569		6.1717006		6.2709884	579	6-3613025
430	<b>6</b> ·0637852	480	6 17 <b>3</b> 7861	530	6.2728770	<b>580</b>	6.3630281
431	6.0661081	481	6-1758673	531	6.2747620	581	6-3647508
	6.0684256		6.1779441		6.2766435	582	6.3664704
	_		6.1800167		6-2785214	583	6.3681872
1 .	6.0730445 6.0753460	485	6·1820849 6·1841489		6-2803958 6-2822667	584 585	6·3699010 6·3716118
1			6.1862086		6.2841342		
	6-0799332	497	6.1882641	1	6·2859981	586 587	6·3733198 6·3750248
			6.1903154		<b>6.2878586</b>	588	6·37672 <b>6</b> 9
439	6.0844994	489	6.1923625	539	6.2897156	589	6.3784262
1 [	6-0867747	490	6.1944054	540	6-2915691	<b>590</b>	6-3801225
		491			6-2934193		6.3818160
	6-0913099		6.1984787		6.2952660		6.3835066
443	6 <b>·093</b> 5698 6 <b>·09</b> 58246		6·2005092	· ·	6.2971093	593	
	<b>6-0980743</b>		6-2025 <b>3</b> 55 6-20 <b>4</b> 5578		<b>6·2</b> 989492 <b>6·3</b> 007858	594 595	6·3868793 6·3885614
1 1	6.1003190		6.2065759				
	_	497		_	6·3026190 6·3044488	5 <b>96</b> 5 <b>97</b>	6-3902407 6-3919171
	6.1047932		6.2106001		6.3062753	598	6.3935908
440	6-1070229	499	6-2126061	549	6-3080984	599	6-3952616
450	G-1092476	500	6-2146081	550	6.3099183	600	6-3960297

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(21	Tab. 8.*						
N.	Logar.	N.	Logar.	N.	Logar.	Ŋ.	Logar.
601	6 3 78 59 49	651	6:4785096	701	6-5525079	751	0:0214057
602	8,1002574	652	6:4800446	702	6.5599334	752	6.6227363
603	6 1019172	653	6-4815771	703	0.3553569	753	6 6240852
604	6 4035742 6 4052285	654 655	6.4831074 6.4846352	704	6.5567784	754 755	6-6253924
				705	6.5581978		6.6267177
606	6:4068800 6:4085288	656 657	6.4861608 6.4876840	706 707	6·5596152 6·5610307	756 757	6:6280414
608	6.4101749	658	6.4892049	708	6.5624441	758	6.0300881
609	6.4118183	659	6.4907235	709	6.5038555	759	6.6520018
610	6-4134590	660	6.4922398	710	6.5652650	760	6.6333184
611	6-4150970	661	6 4937 538	711	6.5666724	761	6.6346334
612	6.4167323	662	6.4952656	712	6.5680770	762	6.6359466
613	6.4183649	663	6.4967750	713	6.5094814	763	6.6372590
614	6 4199949	664	6.4982821	714	6-5708830	704	0.6385079
615	6.4216223	665	6.4997870	715	6.5722925	705	6.6394758
616	6 4232470	No.	6.5012897	716	6.5736802	766	6.6111822
617	6-4248690		6:5027900	717	6.5750758	767	6-6424868
618 619	6:4264885 6:4281053	669	6·5042882 6·5057841	719	6:5764696 6:5778614	768 769	6-6437897
620	6-4297 [95]		6.5072777	720	6-5792512	770	6-6463905
621	0.4313311	671	6.5087691	721	6-5806391	771	6 6176884
622	6.1329401	672	6.5102583	722	6.5820251	772	6.0489846
623	6-4345465	673	6.5117453	723	6 5834092	773	6.6502790
624	6-4361504	674	6.5132301	724	6.5847914	774	6.6515719
625	6.4377516	675	6.5147127	7/25	6 5861717	775	6.6528630
626	6.4393501	676	6.5161931	726	6-5875500	776	6.6541525
627	6.4409465	677	6.5176713	727	6:5880265	777	6-6551404
628	6-1425 102	678	6.5191473	7.28	6.2803010	778	6:0567.265
629	0.4441313	679	6.5206211	729	6.5916737	779	6.6380110
630	6-4457198	680	6.5220928	730	6.5930445	780	6.6592430
631	6.4473059	681	6.5235623	731	8-5944135	781	6.6605751
632 633	6.4488894	682	6·5250297 6·5264949	7 <b>3</b> 2	6-5957805 6-5971457	782 783	6:6615547
634	6.4520490	683	6.5279579	734		784	6:6631327
635	6.4536250	يسمعد	0.5294188	735	6.5998705	785	6.6656837
	6.4551986	636	6.5308776	736	6.6012301	796	0.6869368
637	6.1567697	687	6.5323343	737	6.6025879		6:6692282
638	6.4583383	688	6 5937888	738	6.6039438	788	6.069 1081
639	6-1599045	689	6.5352413	739	6.6052979	789	0.6707663
640	6.4614682	690	6.5366916	740	6.6066502	790	6-67 20329
_	6-4630295			_	6.6030006		
642		692		_	6.6093492	792	6-67 15614
643		693			6-6100360	793	6:07:58232
644 645	6·4676987 6·4692503	694 695		744	6-6120410 6-6133842	794 795	6:0770835 6:0783121
_				_			6-6795992
	6·4707995 6·4723463		6-5453197		6:6147256 : 6:6160652 :		6.6803347
_	6.4738907			_	6.6174090		B Me 2   1000
	6.4754327		6.5496507		0.0187390		
					6-6200732		

Tal	b. 8.* I	IYP	ERBOLIC	LOC	3ARITHM	(217)*		
N.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.	
801	6.6858609	<b>851</b>	ľ		6.8035053	951	6.8575141	
802 803	<b>6.687</b> 1080 <b>6.6</b> 883547	852 853	l _		6·8046145 6·80 <b>572</b> 26		6·8585650 6·859 <b>6</b> 149	
804	6.6895993	854			<b>6</b> ·8068294	954		
805	6.6908423	855	6.7511015		6.8079349	955		
806	6.6920837	856	6.7522704	906	6.8090393	956		
807	6.6933237	857	6.7534379	907			6.8638034	
808	6.6945621	858	6.7546041	908		958	6.8648478	
809 810	<b>6</b> ·6957989 <b>6</b> ·6970342	859 860	6·7557689 6·75 <b>6</b> 9324	909 910		959 <b>96</b> 0	<b>6</b> ·8658911 6·86693 <b>33</b>	
811	6.6982681	861	6.7580945	911	6.8145429	961	6.8679744	
812		862		912			6.8690145	
813		863	6.7604147	913	6.8167359	963	6.8700534	
814	6.7019604	_	6.7615728	914		964	6.8710913	
815	_	865	6.7627295	915	6.8189241	965	6.8721281	
816				916		966	6.8731 <b>63</b> 8	
817	6·7056391 6·7068623	8 <b>67</b> 8 <b>6</b> 9	6·7650390 6·7661917	917	6·8211075 6·8221974	967	6·8741985 6·87 <i>52</i> <b>32</b> 1	
819	6.7080841	869	6.7673431	919			6.8762646	
820	6.7093043	870	6-7684932	920		970	6.8772961	
821	<b>6</b> ·7105231	87 I	6.7696420	921	6.8254600	971	6·878 <b>326</b> 5	
822	6.7117404	872	6.7707894	922	6.8265452	972	6.8793558	
823	6.7129562	873	6.7719356	923		973	6.8803841	
824 825	6·7141705 6·7153834	874 875	6·7730804 6·7742239	924 925	6·8287121 6·8297937	97 <b>4</b> 975	6·8814113 6·8824 <b>3</b> 7 <i>5</i>	
826	6.7165948	876	6.7753661	925 926				
827	6.7178047	877	6.7765070	920 927	6.8319536		6.8844867	
828	6.7190132	878	6.7776466	928		978	6.8855097	
829	6.7202202	879	67787849	<b>92</b> 9	6.8341087	979	6·886 <b>5</b> 316	
830	6.7214257	880	6.7799219	930	6.8351846	980	6·887 <i>552</i> 6	
831	6.7226298	881	6.7810576	931	6.8362593	981	6.8885725	
832	6.7238324	882	6.7821921	932	_	982 983	6·889591 <b>3</b> 6·89 <b>060</b> 91	
833 834	6·7250336 6·7262334	883 884	6·7833252 6·7844571	933 934	•	984	6·8916259	
835	6.7274317	885	6.7855876	935		985	6.8926416	
836	6-7286286	886	6.7867170	936	6.8416155	986	6.8936564	
837	6.7298241	887	6.7878450	937	6.8426833	987	<b>6.</b> 8946700	
838	67310181	888	6.7889717	938		988	6.8956827	
839 840	6·7322107 6·7334019	889 890	6·7900972 6·7912215	9 <b>3</b> 9 9 <b>4</b> 0		989 990	6·8966943 6·8977049	
841			6.7923444		6·84 <b>6</b> 9431		6.8987145	
842	_	. –	6.7934661		6.8480053		6.8997231	
843		893			6.8490663	993	6.9007307	
844		894			6.8501262		6.9017372	
845	6-7393366	895		_	6.8511849		6.9027427	
846	6-7405194			_	6.8522426		6.9037473	
847	6-7417007	897			6·85 <b>329</b> 91 6·854 <b>354</b> 5		6 <b>·9047</b> 508 6 <b>·90575</b> 33	
848 849	6·7428806 6·7440592				6·8 <b>554</b> 088	_	6.9067548	
	6.7452363							
1						K.		

1001   6 9087548   1051   6 9574674   1101   7 0039741   1151   7 04888   1002   6 9097533   1052   6 9584484   1102   7 0048820   1152   7 04520   1004   6 0417473   1054   6 9603477   1101   7 0050852   1153   7 05012   1005   6 94127428   1055   6 9612960   1105   7 0076006   1153   7 050185   1007   6 941730.   1057   6 9631900   1107   7 0094089   1157   7 05385   1007   6 941730.   1057   6 9631900   1107   7 0094089   1157   7 05385   1009   0 0457234   1058   6 9641356   1108   7 0103119   1158   7 05522   1000   6 9467150   1059   6 9650803   1109   7 0112140   1159   7 05531   1010   6 9477056   1059   6 9650803   1109   7 0112140   1159   7 05541   1011   6 9186952   1064   6 9669671   1111   7 0130158   1161   7 05573   1012   6 916952   1064   6 9669671   1112   7 0130158   1162   7 05575   1013   6 926652   1064   0 9697907   1114   7 0130158   1162   7 05575   1013   6 9265770   1065   6 9707301   1115   7 0148144   1163   7 05585   1017   6 9246124   1065   6 9707301   1115   7 0166097   1166   7 05613   1017   6 9246124   1065   6 9716686   1167   7 0701408   1167   7 06618   1017   6 9245570   1068   6 9716686   1167   7 021907   1166   7 03614   1019   6 9265770   1069   6 9744789   1110   7 021907   1160   7 066475   1026   6 9275579   1070   6 9754139   1120   7 021907   1160   7 066475   1026   6 9334271   1075   6 9800759   1125   7 0228681   177   7 066475   1026   6 9334271   1075   6 9800759   1125   7 0228681   177   7 066475   1026   6 9334271   1076   6 9847300   1129   7 02290876   1177   7 066475   1026   6 9334271   1076   6 9847402   1137   7 0364485   1177   7 07018   1183   7 077441   1030   6 945070   1054   6 9847432   1133   7 035065   1183   7 077441   1030   6 945070   1054   6 99839353   1133   7 035065   1183   7 077441   1030   6 945070   1054   6 9985065   1130   7 0356693   1187   7 077441   1030   6 946070   1090   6 99303151   139   7 0356693   1187   7 078560   1187   7 078560   1187   7 078560   1187   7 078560   1187   7 078560   1187   7 078560   1187   7 078	(218	1)*	YPE	RBOLIC	LOGA	RITHMS.		Tab. 8.*		
1002   6 9097533   1052   6-984484   100   7-0048820   1152   7 0152   1003   6 9107508   1053   6-9593885   1103   7-0057890   1153   7 05012   1005   6-9127428   1055   6-9612960   1105   7-0076006   1155   7-05185   1007   6 9147301   1057   6 9631900   1107   7-0076006   1155   7-05185   1007   6 9147301   1058   6-9644556   1107   7-004089   1157   7-05385   1009   6 9167150   1059   6-9650803   1109   7-0112140   1159   7-05414   1000   6 9167150   1059   6-9650803   1109   7-0112140   1159   7-05451   1010   6-9177056   1010   6-9660242   1110   7-0121153   1160   7-05518   1012   6-9186552   1061   6-9669671   1111   7-0130158   1161   7-05508   1012   6-9679092   1112   7-0139155   1162   7-05589   1013   6-926582   1064   6-9699790   1112   7-0139155   1162   7-05589   1013   6-9266582   1064   6-9699790   1114   7-0157124   1164   7-05961   1115   6-9266582   1066   6-9716686   1116   7-016690   1166   7-06685   1017   6-9246124   1067   6-9716686   1116   7-016690   1166   7-066153   1014   6-9265770   1009   6-9744789   1119   7-0201907   1166   7-066153   1020   6-9265770   1009   6-9744789   1110   7-0216840   1170   7-06475   1024   6-9314718   1074   6-978481   1121   7-022681   1177   7-06475   1024   6-9345972   1077   6-9819347   1123   7-0226881   1177   7-066561   1024   6-9345972   1075   6-9819347   1125   7-0225881   1177   7-07072   1026   6-93353704   1078   6-9828628   1128   7-023583   1175   7-07072   1026   6-9353704   1078   6-9884828   1128   7-0235865   1180   6-9353704   1078   6-9886285   1128   7-0236876   1177   7-07072   1026   6-9353704   1078   6-9886985   1129   7-0299729   1180   7-07450   1031   6-945056   1086   6-9935353   1135   7-0352686   1186   7-07526   1187   7-07526   1188   7-07526   1188   7-07526   1189   6-9450561   1189   7-085060   1199   6-9450561   1199   6-9935930   1140   7-085366   1187   7-07526   1188   7-07526   1188   7-07526   1188   7-07526   1188   7-07526   1188   7-07526   1188   7-07526   1188   7-07526   1188   7-07526   1188   7-07526	'n.	Logar.	N.	Logar.	N.	Logar.	N.	Logar.		
1003	1001	6 9087548	1051	6 9574974	1101	7.0039741	1151	7'0483864		
100    6-91  17473   1054   6-9603477   1101   7-0060952   1154   7-05038   1006   6-91  27428   1055   6-9612660   1105   7-0076006   1155   7-05185   1007   6-91  1737374   1056   6-9622435   1106   7-0085052   1156   7-05272   1007   6-91  1750   1050   6-9650803   1107   7-0103119   1158   7-05444   1009   6-9177056   1050   6-9650803   1109   7-0112140   1159   7-05538   1010   6-9177056   1050   6-9650803   1109   7-0112140   1159   7-05518   1010   6-9186952   1061   6-9660242   1110   7-0121153   1162   7-05518   1012   6-9186952   1061   6-9669671   1111   7-0130158   1162   7-05789   1013   6-926052   1063   6-9689504   1113   7-013155   1162   7-05789   1013   6-926052   1064   6-9697092   1112   7-0139155   1162   7-05789   1016   6-926052   1065   6-9707092   1115   7-0157124   1164   7-05901   1015   6-926063   1117   7-0157124   1164   7-05901   1016   6-926657   1066   6-9716686   1116   7-0157061   1166   7-06607   1104   6-9265770   1069   6-9744789   1119   7-0201907   1169   7-06301   1020   6-9275579   1070   6-9754139   1120   7-021940   1170   7-06475   1022   6-9295168   1072   6-971813   1122   7-0229681   177   7-066475   1022   6-925168   1072   6-971843   1122   7-0229681   177   7-06651   1024   6-9314718   1074   6-9914433   1124   7-0239681   177   7-06651   1025   6-93437072   1077   6-9819347   1127   7-0219764   1177   7-06651   1026   6-9334920   1076   6-9819347   1127   7-0239681   177   7-07672   1026   6-9334921   1075   6-9819347   1127   7-0239681   177   7-07672   1026   6-9349707   1077   6-9819347   1127   7-0239681   177   7-07651   1026   6-9349707   1077   6-9819347   1127   7-0239681   177   7-07651   1026   6-9349707   1077   6-9819347   1127   7-0239681   177   7-07651   1029   6-9349707   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-9819347   1077   6-					-			7-0102548		
1005	10000							7 0501225		
1007   6 9137374   1056   6 9622435   1106   7 0085052   1156   7 05272   1007   6 9157234   1058   6 9631900   1107   7 0004089   1157   7 055388   1009   0 9157234   1058   6 9641356   1108   7 0103119   1158   7 05444   1010   6 9177050   10 00   6 9660242   1110   7 0121153   1160   7 05617   1011   6 9186952   1061   6 9669671   1111   7 0130158   1161   7 05703   1012   0 9196838   1002   6 9669671   1111   7 0130158   1161   7 05703   1013   0 9266715   1063   6 9689504   1113   7 0148144   1163   7 05875   1161   0 9216552   1064   6 9697907   1114   7 0157124   1164   7 055675   1161   0 922643   1065   6 9707301   1115   7 0166097   1165   7 06603   1017   0 9246124   1067   6 9726063   1117   7 0184018   1167   7 06219   1014   0 92555952   1068   6 97355490   1118   7 012967   1168   7 06032   1019   6 9265770   1069   6 9744789   1119   7 0201907   1169   7 06475   1022   6 9295168   1072   6 977481   1121   7 02246490   1170   7 06475   1022   6 9295168   1072   6 9774813   1122   7 02246490   1174   7 066475   1024   6 9314718   1074   6 9791453   1124   7 0246490   1174   7 066475   1026   6 9334230   1076   6 98800759   1125   7 0255383   1175   7 06694   1026   6 9334230   1076   6 9810057   1126   7 0263261   1177   7 06987   1029   6 9334972   1077   6 9810057   1126   7 0263261   1177   7 06646   1026   6 9334230   1076   6 9810057   1126   7 0263261   1177   7 07072   1028   6 9334972   1077   6 9810057   1125   7 0228074   1178   7 07072   1028   6 9353704   1078   6 98847163   1130   7 023857   1181   7 07072   1030   6 9353704   1080   6 98847163   1130   7 023857   1181   7 07072   1030   6 9353704   1080   6 98847163   1134   7 030857   1181   7 07072   1030   6 9405160   1084   6 99884132   1134   7 0355065   1187   7 07072   1030   6 9405160   1084   6 99884132   1134   7 0355065   1187   7 07073   1031   6 9460760   1086   6 9930353   1130   7 0356864   1187   7 070857   1031   6 9460760   1086   6 9930353   1130   7 0356864   1187   7 070850   1187   7 070850   1187   7 070850										
1007	_		_		_					
100%   0 9157234   1038   6-9641356   1109   7-0103119   1158   7-05444   1030   6-9167056   1050   6-9650803   1109   7-0112140   1150   7-05531   1010   6-9187056   1050   6-9650803   1109   7-0112145   1160   7-05617   1011   6-9186952   1061   6-9669671   1111   7-0130158   1161   7-05763   1013   6-926654   1063   6-9689504   1113   7-0139155   1162   7-05875   1014   6-9216582   1064   6-969907   1114   7-0157124   1164   7-05875   1015   6-926654   1065   6-9707801   1115   7-0166097   1105   7-00047   1115   7-0166097   1105   7-00047   1107   6-9246124   1067   6-9726063   1117   7-0184018   1167   7-06218   1019   6-9265770   1069   6-9744789   1119   7-0201907   1169   7-00304   1019   6-9265770   1069   6-9744789   1119   7-0201907   1169   7-06475   1022   6-9295168   1072   6-9735430   1112   7-0224681   1170   7-06475   1022   6-9295168   1072   6-9772813   1122   7-0224681   1170   7-066475   1024   6-9314718   1074   6-9791453   1124   7-0246490   1174   7-06647   1025   6-9334948   1073   6-9782137   1123   7-0255383   1175   7-06646   1026   6-9334701   1076   6-9828528   1081   6-9887900   1125   7-0282014   1178   7-07072   1028   6-9353704   1078   6-9828628   1128   7-0290876   1179   7-07072   1029   6-9353704   1078   6-9828628   1128   7-0282014   1179   7-07072   1030   6-9373144   1080   6-9847163   1130   7-0290876   1179   7-07072   1030   6-9353704   1078   6-9828628   1128   7-038565   1181   7-07410   1034   6-9402225   1083   6-9874902   1133   7-0355065   1181   7-07614   1035   6-94402225   1083   6-9874902   1133   7-0355065   1181   7-07614   1036   6-94402225   1083   6-9874902   1139   7-037060   1189   7-08002   1139   6-9450760   1040   6-9848972   1089   6-9930151   1139   7-037060   1189   7-08002   1040   6-9488972   1089   6-9930151   1139   7-037060   1189   7-08002   1041   6-9488972   1096   6-9985096   1145   7-0449051   1197   7-08535   1044   6-9508143   1094   6-9957662   1144   7-0449051   1197   7-08535   1044   6-9536842   1097   6-9985096   1145   7-044										
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## LOGISTIC LOGABITHMS.

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## TABLE IX.

## LOGARITHMIC SINES AND TANGENTS

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IN THE FIRST TWO DEGREES.

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3 5-1626961 6 1849154 4 5-2876349 6-4917548						
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1 5-7269676 6-5368332   2 5-7647561 6-5429974						
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ш									7-64-12983 \$
ш									7-6407H00-50
ш	3	7.2701100	7-820374	7-4656916	7.5070876	7 544/123	7 5798900	7.6119161	7-6412612 <sub>]</sub> \$1  7-6417419 <sub>]</sub> \$1
и	R	7-1713169	7-4219709	7-4673296	7 5083958	7-5459120	7-5804435	7 6124 104	7-6422221 5
и	6	7 3722107	7-4227670	7 4680469	7 5090483	7 5465106	7 5809964	7-6129440	7-6427017.5
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и	8	7-37-19943	7 4243549	7-4694778	7 5103506	7 5477053	7 5821000	7-61 19695	7 643659130
ш	9	7 37 488 32	7 4251467	7-4701915	7-5110000	7 5483015	7-5826508	7 6144913	,7 G441 473 S
ы	10	7-3757705	7-4259370	7 4709041	7.5116489	7.548896H	7 583 2009	7-6149920	7-64 16149 8
ш	H	7-1715-100	7 4267259	7-4716154	7-5122966	7 5494913	7-59 12000	7.61601.14	7-645091xi4 7-645568340
ш	14	7-3764214 7-3764214	7 10000 11	7-4730347	7-5130892	7-5510700	7-5959049	7-5170-15	7-6465186 41
	15	7 3801795	7 429867	7 4737420	7.3142340	7-5518613	7 5839409	7-6175397	7-6469945-45
	16	7 3810361	7-430649	7-4751549	7-5155208	7-5524518	7-5864869	7-6180474	7:647468946
	17	7 3819308	7-4314295	7-4758594	7 5161628	7-5530414	7-5870321	7-6185544	7:647949640
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	21	7 3854122	7-4345372	7 478/1658	7-5187219	7 55 3921	7-5892063	7 121 007 0	7-6-56-6017-00
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	SAL	7 4163567	7-4622754	7 503H000	7 34 16 984	7-5765534	7 GOPP 177	7.6 (MM \$5H)	* "47(m/c) 7kg
	9	7-417-1631	7 4630011	7 5044595	7-1423029	7-3771113	7 6093356	7-6-19-11-12	7-64-7-6217 1
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5	# -	51	50	49 <sup>j</sup>	48	47'	46	45'	44'

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71	16	17'	18	19'	20'	21'	22'	23'	1
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1 2	-668 t014	7-6946042	7-7194045	7-7428649	7-7651228	7-7862954	7-8064836	7 8257750	0 5
2/2	P-6697531	7-6950293	7-7190061	7-7413454	17-7654843	7-7866396	7-8068123	[7-6260894	1 5
3/2	-6692043	747954541	7-7202071	7 7436255	7 7658454	7-7869836	7-8071407	7 6264030	6 5
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67	-6703552	7-6967258	7-7214097	7-7447640	7.7669271	7.7880140	7-8081244	7-8273440	5]3
7.7	-6710045	7-6971499	7-7918084	7-7451428	7 7672971	7-7H03569	7 8084518	7-8276379	95
8 7	-6714534	7-6975716	7 7222078	7-7455212	7-7676468	7-7886996	7-8087789	7-H279706	3
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5,7	-6743827	7 7005189	7-7249911	7-7481614	7-7701562	7.7910906	7.8110622	7-8301552	7/4
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7 7	1-6754727	7-701 357 3	7 7257856	7-7489129	7-7700705	7-7917713	7-8117124	7-8307778	94
8,7	7-6759170	7 7017759	7-7261813	7-7492880	7 7712272	7-7921113	7-8120371	7.8310687	7 4
97	7-6761608	7-7021941	7 7265767	7 7496629	7 7715036	7-7924510	7-8123615	7-8313999	24
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25/7	7-6790144	7-7046949	7-7289413	7-7519054	7-7737161	7-79-14836	7-8143033	7-8333578	3
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ub	7-6816519	7:7071#13	7 7312931	7-7541364	7 7758381	7-7965069	7 8162364	7-8351082	7/2
127	7-68/20099	7 7075944	7-7316839	7-7545072	7-7761907	7-7968431	7-8165578	7 #354163	3 2
13/2	7-6823275	7·70H0076	7 732074	7-7548776	7-7763491	7-7971791	7-8164789	7-8357238	1
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13/	1-6834013	7 7088311	7-7328340	7 7556174	7-7772470	7-7978503	7-9175204	7:6363381	1/2
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10 2	1-685145H	7 7104746	7 7 14409	7-7570934	7-7786514	7-7991898	7-8188006	7-837564	Ш
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27	-6864460	7-7117032	7-7355720	7-7561971	7-7797017	7-8001916	7-8197583	7 8384913	3 1
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67	1-6981763	7 71 33 359	7 7 37 1 1 7 5	7 7596643	7.7HT09HZ	7 HOL1238	7-8210319	7-8397013	3 1
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42	-6916163	7-7163831	7 7401924	7-7695840	7 78 38779	7 8041761	7-8235680	7-8421910	0
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100	24'	25'	26'	271	28/	291	30	31	
		المحادث بين المحادث	والكالفنسالي		الكالمنبية الكا	والمساقل المسا		البسانية	
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6		34590	11.4360006	6-8201 <b>944</b> ;	8-560827 <i>t</i> 8-5642912	34636	11-4391724 11-4357088	9.9837869	10-0002019	46	9.9997082	54
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9		33782	11-425786 L		e-5711368 e-5745197	33829			10-000305v	47	9 9996942	51
-	8-5775660	33521	11 4224340		8-5778766	33569		9-9832624	In-constagi	16	9-9996894	50
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12	9-5641933	32761	11-4158067	6-86751 <b>67</b>	0-5045136	32809	11-4154664	a-a8700 <b>00</b>	TEL-CAMPITY CASSAS	49	9-999679 <sub>8</sub>	48
13	8-5874694	32515	11-4125306	6-8740714	8-5877945	32564	11-4122055	9-9828687	2 C . COO THIE N	ŀ	9 9996749	47
114	8-5907209	32274	11-4092791	6-880576E	8-5910509	32323			10-0003300	50	9-7996700	46
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22774	11-2554640			23845			10-0006707	71	9-9993293	
22655	11-2531985		8-7474792	22725			10-0006777	70	9-9993223	48
22538	11-2509447	7-1974998	8-7497400	22608	11-2502600	9-9749205	10-0006848	4	9-9993152	47
22420	11-2487027	7-2019104	8-7519892	22492	11-2480108	9-9747868	10-0006919	71,	9-9993091	46
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22191	11-2442531	7-2108167	0.7564531	22202			10-0007062	73	9-9992938	
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21854	11-2398488	7-2196326	8-7600719	21928	11-2391281	9-9742519	10-0007207	73	9-99927 <b>9</b> 3	
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21500	11-2333253			21602			10-0007428	74	9-9992572	
91 490	11-2311725			21497			10-0007502	74	9 <b>-99924</b> 98 9 <b>-999242</b> 4	
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25   1290841   2885   8709159   7.746890   1301731   7.6820769   1-0084369   008-663   375   9916-137   376275   2884   8703391   7.7124227   2296609   2885   8703016   7.6953047   1307648   7.6173174   1-0085135   0084169   276782631   31303288   8703016   7.6953047   1316607   7.6128657   1-0085195   0085141   0085149   0085141   0086141   00				8719044	1					374	991671	
26   1293725   2884   8763273   7-7296176   1304690   7-6546584   1-0084252   0084039   7-6749631   1307648   7-673174   1-0085135   008414   692976   30053347   7-6749631   1313667   7-61085194   0085195   008414   692976   30053347   7-6749631   1313667   7-612857   1-0085290   0085518   0084734   7-6612976   13165257   7-6757541   1-0086290   0085518   0084734   7-6612976   13165257   7-6757541   1-0086290   0085551   3005313   3005313   3005313   3005313   300667   300677   300667   300667   300667   300667   300667   300667   300677   300667   300677   300667   300667   300667   300667   300667   300667   300677   300667   300667   300667   300667   300667   300667   300667			2HH.5							17.5	DOD	
27   1296607   2883   2703391   7-7124227   1307648   7-6173174   1-0085135   00841.6   17-2811.00   2883   2705306   7-65-3047   1313667   7-612857   1-0085094   008574   37-8811.00   37			2884							376	MH 1017	$\mathbb{P}^{5}$
28   1299494   2888   8700506   7-69-3047   1410607   7-6300533   1-008-5349   008-4794   378   8697527   7-6742631   1313566   7-6128557   1-008-5904   008-517   378   8114284   388   8694738   7-6414075   1319484   7-5787178   1-0086670   008-5931   388   3813333   381333   3813333   3813333   3813333   3813333   3813333   3813333   3813333   3813333   3813333   3813333   3813333   3813333   381333   3813333	ننسا		2884							17.7	4-51,040	, 3,
29   1802378   2883   3697622   7-6782631   1313566   7-6128657   1-0085904   0085172   375   9914419   321311030   4884   2884   3688970   7-6275923   132444   7-5617567   1-0087631   0085951   383   31313913   3868087   7-6108516   1322444   7-5617567   1-0087631   0087631   0087631   384   34151679   2884   3688970   7-6275923   1322444   7-5617567   1-0087631   0087452   008763   008763   384   31513913   384   3685087   7-6108516   1322444   7-5280571   1-0087452   0087653   0087653   384   321564   388   36850819   7-5775916   1331324   7-5113172   1-0088623   0087653   387   3213133   288   3677436   7-5610713   1342244   7-584614   1-0088623   008765   387   387   38132433   288   367657   7-5282478   1340207   7-4615855   1-0089015   0088230   387   38132433   288   3665904   7-487706   1346129   7-487064   1-0099408   0089106   386   9911   3431686   34130862   288   3665904   7-487706   1346129   7-487064   1-0090940   009016   386   9911   3431686   34130862   288   3665904   7-487706   1346129   7-487064   1-0090940   009016   386   9911   3431686   34130862   288   3665904   7-487706   1346129   7-487064   1-0090940   009016   386   9911   3431686   34130862   288   3665904   7-487308   1352053   7-389909   1-0090940   009016   386   3911   386			2885							378	124   2 15	4
30   130.277   2884   4694732   7-6612976   1316525   7-5957541   1-0029290   002552   380   321311030   2883   8694970   7-6614975   1319484   7-5787178   1-0026676   002593   1813913   2283   8686087   7-6619856   1325444   7-5448690   1-0027403   002653   2823   3686087   7-6619856   1325444   7-5448690   1-0027403   002653   2823   3686087   7-6619856   1325444   7-5448690   1-0027403   002653   2823   282350   2823   862087   7-5775916   1331324   7-5113178   1-002223   0027460   2823   28233   86277436   7-5282478   13324285   7-44508574   1-002223   002823   002824   2823   862767   7-5282478   134207   7-4615357   1-002223   002823   002823   2823   8665024   7-5282478   134207   7-4615357   1-002223   002823   002823   2823   8665024   7-5282478   134207   7-4615357   1-002223   002823   002823   2823   8665024   7-428716   134207   7-4615357   1-002223   002823   002823   2823   8665024   7-428716   1346129   7-4287064   1-002106   002823   002823   2823   2823   8665024   7-428716   1346129   7-4287064   1-002106   002823   002823   2823   2823   8665024   7-428716   1346129   7-4287064   1-002106   002823   002823   2823   2823   8665024   7-428716   1346129   7-4287064   1-002106   002823   0028			2884							37 B	[ESI ] 2 41	9 ;
130.2172   2884   86948.78   76414075   3194844   7.5787178   1.0086876   0.0859.34   1.311030   2884   8688.970   7.6275.923   3.22444   7.5617567   1.0087664   0.086.934   1.311030   2884   8688.970   7.6275.923   3.22444   7.5617567   1.0087664   0.086.31   2.32864   1.311030   2.32864   2.32864   2.5286571   1.0087664   0.08623   0.08745   3.32864   3.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.322564   2.32866   3.32256   2.32866   3.32256   2.32866   3.32256   2.32866   3.32256   2.32866   3.32256   2.32866   3.32866   3.32256   2.32866   3.32256   2.32866   3.32256   2.32866   3.32256   2.32866   3.32256   2.32866   3.32866	_		2284		-				0023172	379	G11485	PQ3
32 1311030 288 868970 7 6275923 1322444 7-5617567 1-0087402 0086312 2881 868087 7-5610816 1325404 7-548690 1-0087402 0088747 2881 8680819 7-5775916 1331324 7-513179 1-008827 008740 008747 2881 8680819 7-5775916 1331324 7-513179 1-008827 008740 008747 2881 8680819 7-5775916 1331324 7-513179 1-008827 008740 008745 2881 8680819 7-5775916 1331324 7-513179 1-008827 008740 008745 38132830 8677450 7-5610713 1334285 7-4946514 1-0088023 0087845 382 9911770 8881 8668787 7-5119437 1343168 7-4945085 1-0089408 0088150 382 9911770 8881 8668787 7-5119437 1343168 7-4945085 1-0089408 0088150 382 9911770 8881 8668787 7-5119437 1343168 7-4945085 1-0099408 0088150 382 9911770 8881 8668787 7-5119437 1343168 7-4945085 1-0099408 0088150 382 9911770 8881 8668787 7-5119437 1343168 7-4945085 1-0099408 0088150 382 9911770 8881 8668787 7-4519437 1343168 7-4945085 1-0099408 0088150 382 9911770 8881 8668787 7-4519437 1343168 7-4945085 1-0099408 0088150 382 9911770 8881 8668787 7-4519437 1343168 7-4945085 1-0099408 0088150 382 9911770 8881 8668787 7-4814883 1357978 7-4634001 13520537 1991595 1-0099408 0099168 382 991092 144 1345627 2882 8668787 7-4814883 1357978 7-4634001 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 382 991092 144 134562 1-0099408 0099168 391092 144 134562 1-0099408 0099178 144 134562 1-0099408 0099178 144 134562 1-0099408 0099178 144 134562 1-0099408 009918 144 144 144 144 144 144 144 144 144 1	311	13052972	2484	M09473M	1.0013876	1310525	7 912/241	t anne zat	1999999	33661	201444	1
32   131930   2883   8668087   7-5108516   1325404   7-542690   1-00876610086   12-26   12-26   13-26	31	1308146	7993							210.0	3434-1446	9,
33   1316797	32	1311030								21012	NO 1 40%	120-3
35 1319691   Med 3   9677436   7-5775916   1331324   7-511317#   1-0088232   0087460   385   39212135   386   3322330   322330			DR.R.C.						0086634	10.4	49.540	W.
36   322564   2883   8677436   7-5610713   1334285   7-4946514   1-0084023   0087845   381326330   381326330   3883   8662747   7-5119437   343168   7-4750855   1-0089408   0088130   382330   3883650   47-7577   7-5119437   343168   7-4750855   1-0089408   0088130   382330   3883650   47-7577   37-7718   37-7718   37-7718   37-7718   37-7718   3813263   38662747   7-5119437   343168   7-4750855   1-0099408   0088130   38230   383365	34	131G797	197.4.1	P683203	7-5941×49	1328364	7-5280571	1-0087842	008707,	19.3	40, 21,	137
36   3225-47   2874523   7-5446236   3372467-4780576   1-0089015   0088230   3813243   3813243   2883   666787   7-5119437   1343168   7-4450855   1-0089408   00881516   3873407   38133408   382428   8665767   7-5119437   1343168   7-4450855   1-0089408   00881516   3873408   38850   2883   8665767   7-5119437   1343168   7-4450855   1-0089408   0088150   38734274   3818622   2882   8665704   7-495342   1349091   7-4123978   1-0099562   200-973   389342   2883   2885	35	1319681	JWW 3	86,803,18	7-5775916	1331324	7.5113178	1-0088232	0087460	7145	97117	\$1 b
37 1325447   38 1328330   38 662787   7-5119437   1343168   7-475075   1-0089015   0088230   38   3662787   7-5119437   1343168   7-4750855   1-0089015   0089230   38   3662787   7-5119437   1343168   7-4750855   1-008902   008903   38   39   1343168   7-4750855   1-008902   008903   38   38   38   38   38   38   38	16	1322564		8677436	7-5610713	1334285	7-4946514	1-0088623	0087845	300	991713	33;
38   1324360   2843   8665904   7-495710   1345168   7-4150855   1-0089402   0080610   347   3911097   2841   134507   2842   8665904   7-495710   1346129   7-4287064   1-0090196   0080610   347   3911097   2841   134507   2842   8665904   7-495712   1349081   7-4150855   1-0090862   00807   3911097   42   134909   7-415085   1-0090862   00807   3911097   42   134909   7-415085   1-0090862   00807   2841   2842   8657266   7-4474345   1355015   7-3799908   1-0091346   0090558   3481   344744   345627   2842   8657266   7-4474345   1355015   7-3799908   1-0091346   0090558   3481   344744   345627   2842   8657266   7-4474345   1355015   7-3799908   1-0091346   0090558   3481   34	37	1325447	-	8674153	7-5446236	1337246	7-4780576	1-0089012	008×234	JW.	991173	718
38   1331213   2883   8668787   7-5119437   1343168   7-4450855   1.0089802   0089003   387   3910092   401334096   283   2865044   7-495482   1349091   7-4123978   1.0090196   0089350   009016   283   2865044   7-495482   1352053   7-961595   1.0090196   0089350   009016   283   2865267   7-437433   1352053   7-961595   1.0090198   009016   283   284	-		TKB3							186	991	× 1)
40   134096   2883   8665904   7-4957106   1346129   7-4287064   1-0090106   0083390   3282			2843							38.7	99109	0.
41 1336979			1883							357	200 a 500	
42   1319/62   2882   8657256   7-4474335   1355015   7-3799999   1-0091346   0090158   359   349   345   34	_		2883							300	92102	1
43 1342744 2882 8657256 7-4474345 1355015 7-3799909 1-0091346 0090558 390 994 4 1345027 451348500 45451392 2882 86457267-1855491 1365865 7 3160047 1-0092183 0091343 391 990 3 1 1365835 7 3160047 1-0092183 0091343 391 990 3 1 1365805 7 3160047 1-0092183 0091343 391 990 3 1 1365805 7 3160047 1-0092183 0091343 391 990 3 1 1365805 7 3160047 1-0092183 0091343 391 990 3 1 1365805 1 1365805 7 3160047 1-0093183 0092183 391 990 3 1 1365805 1 1365805 1 1365805 7 3160047 1-0093183 0092183 391 990 990 1 1365805 1	_		2mm, 3							189	2191 17216	ij,
44 1345627   282 2   265437   7 4314803   1507978   7 3638016   1 0092183   0091943   151348560   282 2   2642602   7 3897778   15 39017   3318980   1 0092183   0091513   15 39017   15 39017   15 39017   1 0092183   0091513   15 39017   15 39017   1 0092183   0091513   15 39017   1 360036   1 360036   1 360038   288 2 8642843   7 3683617   1 360037   1 0092183   009217   1 16 390			2882			_			(Makes 5.1.	350	1252 105 5	
45   1348500   2222   2252   245240   7-347850   1369940   7-3478610   1 00921   3 1 0091   341   351			2883						THE TOTAL	1991	Carles	
46 1351392 2882 2882 2882 8642844 7.3683512 365866 7.318989 1-0092883 0691784 38735156 2882 8642844 7.3683512 365866 7.3001780 1-0093886 0691784 3897478 3897478 38638512 365886 7.3001780 1-0093886 069372 3597478 39			12872						LACT MAN	14/	Charles	W 1
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5939	10-6821211	8 <b>-3394</b> 991	9-3274745	6208	10-6725255	9.8987736	10-0095956	265	3.3904044	100
3931	10.6815272	3.3407002	9-3280953	6200	10-6719047	9.8986176	10.0096225	200	9 <b>·9</b> 9037 <b>7</b> 5	59
5922	10-5809341			5192	10.6712847	9-8984615	10.0096494	264	9 <b>-9</b> 903706	1.8
5914	10-6803419	ਰ-3430975	1	6183	_	_	10.0096763	970	9•990327	3/
5905	10-6797505	ł	<u>.</u>	6176		)	10-0097033	970	<b>7.99</b> 02907	3.5
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5889	10.6785703	8-3466808	9.3311872	6159	10.6688128	9-8978367	10-0097574	771	9-9902426	54
31	10-6779814	8.3478719	9-3318031	CITO	10-6681969	9.8976804	10.0097845		<b>3·990215</b> 5	53
15880	10-6773934	9-3490614	9-3324183	6144	10.6675817	9.8975241	10.0098117	7 4 7	9.9901883	
30/2	10-6768062	8-3502492	9-3330327	6144	10-6669673	9.8973677	10-0098388		0 000000	51
5864	10-6762198	8.3514354	9-3336463	6136	10-6663537	9.8972112	10-0098661	2/3	9.9901339	50
15855	10.6756343	8.3526200	9.3342591	6128	10.6657409	9.8970547	10.0098933		9.9901067	19
5848	10.67 50495	8-3538029	9-3348711	6120 6112	10 <i>-</i> 6651289	9.8968982	10.0099206	2/3	9.9900794	18
5839	10-6744656	8.3549842	9.3354823		10-6645177	9.8967416	10-0099479	4/3	9.9900521	17
5830	10-6738826			0104	10.6639073			Z/41	0 0 0 0 0 0 0 0 0	46
5823	10-6733003			6097	10.6632976			<b>2/4</b> 1	9.9899973	
5814	10-6727189			6089	10-6626887			<i>41</i> 31	9.9899698	
, 5806	10-6721383			6081	10.6620806	_	4	<i>Z I</i> 51	9·98 <b>99</b> 423	
3799	10-6715584			6073	10.6614733			<i>41</i> a i	9.9899148	
<b>]</b> 5790	10-6709794			6066				2/3		
5782	10.6709794			6058	10-6608667			<b>Z</b> / Di	9.9898873	
5773	10-6704012			6050	10.6602609		<b>6</b>	277		40
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5742				6020	10.0376434	9.0930101	10.0102511	278	9.9897489	30
5734	10.6675223		0.000000	6012	10.6572434		10-0102789	279	9 <b>·</b> 98 <b>9</b> 7211	<b>35</b>
5726		8.3701950		6005	10.6566422		10.0103068	278	9.9896932	34
5718	10.6663763			5997	10-6560417			280	9.9896654	33
5710	10.6658045			5990	10.6554420			Z / 91	9.9896374	
5703	10-6652335			5982	10-6548430	_	· 1	46UL	9.9896095	
5694	10-6646632	8.3748215	9.3457552	5975	10-6542448	9.8940725	10-0104185	280	9-9895815	30
5687	10.6640938	8.3759743	9•3463527	5967	10.6536473	9-8939150	10-0104465	201	9-9895535	29
5679	10-6635251	8.3771255	9•3469494	5960	10.6530506	9-8937576	10.0104746	201	9-3895254	28
5671	10.6629572	8.3782751	9·3475454	<b>5953</b>	10-6524546	9·8935000	10-0105027	201	9-9894973	27
1zcco	10.6623901	8.3794232	9.3481407	5015	10-6518593	9·8934425	10-0105308	201	9-9894692	26
5656	10.6618238	a·3805698	9·3487352	5938	10-6512648	9-8932849	10-0105590	202	9.9894410	25
5647	10.6012582	8.3817149	9·3493290	5930	10.6506710	9-8931272	0.0105872	283	9.9894128	24
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(284) 18 Deg. NATURAL SINES, &c. Tab. 10.

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37 319.2350   27.56   680.7650   4.1324887   3368610   2.9665831   1.0552134   0.523244   72.9   947.5673   319.5106   27.57   680.2137   3.12768   6.3371850   2.9657312   1.0553169   0.524173   317.4867   22.341   0.5224173   317.768   6.3371850   2.96288421   0.55 (20.40525103   31.3474867   22.347487   23.204374   7.256   67.96861   3.1243959   3.371833   2.900422   1.0555241   0.526034   9.31.3474867   23.204374   7.256   67.96861   2.1247681   3.345371   2.957.7076   1.0555279   9.52660   9.31.3474867   2.947303   3.204848   2.756   67.91876   3.1163472   3.38056   2.951543   1.0558358   0.528830   9.32.9472103   18.3217449   2.755   67.91876   3.1163472   3.38056   2.951543   1.0558358   0.528830   9.32.9472103   18.3217449   2.755   67.91861   3.1163472   3.38056   2.951543   2.94.9050   1.0560441   0.54669   9.35   9.46930   1.9560441   0.56669   9.35   9.46930   1.9560441   0.56669   9.35   9.46930   1.9560441   0.56669   9.35   9.46930   1.9560441   0.56669   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.354445   9.35445   9.354445   9.35445   9.35445   9.35445   9.35445   9.35445   9.35445   9.35445   9.35445   9.35445   9.35445   9.35445   9.3	1			2757							928		-4
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45 3214395   27.5   6785605   3.1110057   3391543   2.94,990,0   1.0560441   0.846699   3.5   9.469301   18.   (3.214395   27.5   6785605   3.1110057   3391543   2.94,990,0   1.0560441   0.846699   3.5   9.469301   18.   (3.217449   27.5   4.79287   2.1043422   3.97787   2.944021   1.0561452   0.846920   3.5   9.46930   18.   (3.22657   27.5   4.79287   2.946224   0.846822   1.056452   0.83450   0.84693   18.   (3.22657   27.5   4.777343,3   10.90296   4.404727   2.9346822   1.0564621   0.53450   0.84693   18.   (3.224164   27.5   4.777343,3   10.90296   3.410771   2.9316885   1.0566621   0.55452   0.8445   18.   (3.224164   27.5   4.7774   2.9316885   1.05667   18.   (3.243445   3.24345   3.243445   3.243	Į	43		27.55	6701111	2.1167194	1182016	2.0515453	1-0550360	115 /00 /0	933	9421170	0.59
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30-11	10-5073054N-6952599	9-147766 237 10-4852234	9-838-9489 10-0230-20-20-1-9-9779+H-0-1-
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Deg. 71.

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Sine Dif Covers Cosec. Tang. (Cotang. Secant Vers. D. Cosine)

1328-432 2750 674156-1-00715515 1443276 29014694 1-0577367 0345762

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4126-661 2740 67466-1-0695610 3446530 2905467 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 1-05905476 
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2 1425668	7336	3574332	2-91913#9	3546292	27125120	1-06-140-13	0605065	996	93949195
3 3428401	19336	371600	2-9163121	3040588	27400352	1-0645163	06/6062	997	939 193
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-1	79-5466832 0357	10-4533109 8-8064707	9-5754272 38	11A-4-1152-16 [0:011400	6 10-0287440:	. 9 9712560	ĺ
-1	9-547-0189 33-57	10-4529211 8:8071649	W-57 SR LOS	T410 3 / 12 ROJ:19 H 1 1 4 4 /	1 10-0287910 11	9-9712084	
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-	3 9 3 190 265 3 197	10-44997 55[6-6123679	3.9/3.54/8 384	10-420/5 1 1 8 m5/1	1421	9-9707786	i
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- 1	9-5506916	10-4493084 8-8147646	9-5800000	10-41999109-809303	5 10-0293174 JRE	9 9706825	
-	9-3510237 33ZI	10-44897639-8154521	9 5803892 380		3 11 (0:29 (6)54)	9 9706 846	ĺ
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Verseds.

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bine Dif. Covers Cosec. Tang	Cotang	Secant	Vers.	Dif.	Cosine	-
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1 . x=395 271 6413665 27883153 384197			0665239.	104	9334761	20,
2 3589110 77   611089, 2-7862059 384551				1045	9311718	74
3 15 11 #25 2715 640#175 2-78 10999 3#4865				104,	933162K	157
4 1391 10 714 640 460 2 7819973 365199 5 3597254,77146492740 2 7794942 385533			0668372 0683418	1045		
6 3599 168 2714 164 00032 2 7778024 385867			067 146 1	104"	9329332	-4
7 369 2627 19 63973191 57737100 386700		1-0719851	0671512	1047	1232×4×4	24
8 3605395 27 13 6404605 2-77 36211 3865 36		1		1049	(1) (C) / L (Q)	.52 !
9/3608108[27/13]6391892/27715355-386876			067 4910	1049	11.270.13	-21
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1 Deg.		LOG. SIN	Es, ac.		(29
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0.9-5543292	10-4456708 8-8222961	9-58 11774	10-4158220	9-8072860 10	0298481 9-9701517
Unice Adda 1289	10 4453419 4 8229774	10.5835539 377	10-4154451	9 907 1022 104	0294966 4659 9701032
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39-5553152 1284	10-4446848 - 2 3383	9-5853091	10-4146909	9-8067344[10-	0299939 39 300061
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69-5559711 3278	10-4440289 3-8256973	9 5860624 376	10-1139376	[9 8063064]104	0300913 3 9699087
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	10-4427204 8-8284084	19-5875660137 at	1141-4 12433411	9-8056294 104	0302864 758 9-9697 ( 36
	10-1423940 8-8290648	9-5979413	10-4190597		0303353 189 9-9696647
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39-5595935	10-4414165 9-8311107	9-5/90/657		2-8048916104	0304823 9-9695177
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	10-4397929 8-8344765	9 5909351 37.51	TTCP40SPUBAIS	9-8039681 10-4	0307280 332 9 9692720
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	10-4391454 8-8 158190	9-5916812	10-4083188	9-8035983 10-6	1931
	10.4188221 8 8 364895			9-8034133 10-6	0.302759 <sup>[190]</sup> 9-9 <b>69</b> 1241
	10 4384990 8 8371594			9-8032283 t0-	
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1 141700	10-4324132 × 8497873	9 3994589 1080	10-4003419	9-7997013 10-0	318721 502 9-9681279
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3173		0.6001042 3676	10.1009087	9-799322× 10-0	0319726 - 99680274
319-5682217 419-5685387 3170	10-1317753;5-2511055 10-4314613:8 8517639	9-6005612 3674	10-3094383	9-7991425 104	50310 00000
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- 15162	10-4305117 8-0537358	9-6016625 3007	10-39H3375	9-7985832 10-0	0321742 503 9 9678258
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[3157]		0.0020230 366.		9-7982100/104	0322753 9-9677247
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49-5716946 3144	10-4283054 8-8583191	9 6042233 3653	10-3957767	9-7972760 10	0325287 506 9 9674713
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	10-4279913 8-8589718			9-7969020 10-	0396303[ <sup>PU8]</sup> 9-9673697
	10-4276774 8-8596240 10-4273638 8-8602757			9-7967149 10	n326412 <sup> 903</sup>  9-9673148
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Cosine Dif.		Cotor- IN	Ton	Verseds.	

- 1	-5-1		Deg.	NA.	LUMAI	BINES	,		1 00, 10,
11	Sine	Dif.	Covers	Cosec.	Tang.	Cotang,	Secant	Vers.	Dif. Cosine
1 0	3746066		620 1934	2-0694672	404026.2	2 4730869	1:0725 (47)	0726 61	027 (839 0
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12		Late O.	624×141	2:6656292				07 30 34 .	Panis Clabride M. H.
3	1.00 - 17 - 1		6245844	2:66131198 2:6618033			1.0789150	07 31 4 3 4 07 32596	1693/ 4-17474-6
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7	376493e		6235002	2 6560865	406396E	2 1606494	1 9794250	0735808	1006 926414/34
8		2605	623246-	2 6541868			1.0795527	0736904	1096 376309 32
9	_	2694		25522901			1.0796801	07 2000	1098 936200 1
10	3773021	2693	t 226975 10024986	2 6483034			1-0799364	0740195	1097 925980549
12		2694	6221500	2-6466174			1 0800646	0741294	1099 92 9 64
113	1781101	1693	C /10000	2-6447 323	4084318	2-4483491	1 0801928	0742394	9257606,0
14	3783794	2693	16 J 1 6 J DC			2:446 1559		0743494	1100 25/5/5/66
15	_	160	6313514			2 444 1256		0744395	1162 925 400 6
16	3789178 3791870	7500	6210822	2 G372211		2-1122982	1-0805724 1-0867671	0746799	1102 9254303pt
l ié		1000	A 116 470	2 635 1 00		24372519	DUBORSCO	0747903	1104 925206741
18		1991	6202747	2-6334828	_		1-0809050	0749007	92*09331
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21		16.90	16197366	2 6297560			1-0×12±34	0751212	1306 92447624
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25		1089	ELBERNY	2-6223360	_		1-0817417	0755649	921435175
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_	3824147 38268 14	PER 7	6173166	O DESTINATE	4138728	m Atorolu	1-082261P 1-082-922	0763 205	1113 023659.00
31		LIGHN	6170474			2-4122286		0762318	923768223
32		ZENZ	6167701			2-4102465		0761433	1115 (4236,4324)
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35		1983	6157047	2 6021654			1-0831769		111E 923210224
37		2586	6154961	2-6003484				0769016	923096425
	1848324	2685 2684	0.141020			2-3984118		0770135	1119 97294 2 72
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_	385.693	26×1	0140205	2 5949137 2 5931077			1-0837025 1-0838342	0772376	1121 922 624 20
42	3855-177 3859060	26P	G140940	2 5913043				0774619	1122 9225 8114
43		20154	6: 38250	2-5895037			1-0840980	0775742	922125717
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9	Dif	Cosec.	Verseds.	Tang.	Dif.	Cotang.	Covers.	Secant	D. Cosine	1
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16	3123	10-4957902	18 8626774 18 8635265		1634			10-0328854 10-0329363		
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5	10-4066369			3504	10 3707447			LAST OF L	9-9638112	
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å	10-4049627	6:0071431	9-6317037	13492	10-3682963	9.7827058	10-0365664	0-11	9 9634336	
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ŝ	10~4036×46			144 3	10-3669015				9632168	45
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5	10-4030970			3478	10-3662052	9-7815555		544	9 963 1082	43

if. Secunt Covers, Cotang, Dif. Tang. Verseds Cosec. D.

| Sine | Dif | Covers | Cosec. | Tang. | Cotang. | Secant | Vers. | Dit. | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition | Composition Vers. |Dit.|Cospe Sine Dif Covers Cosec. [Tang. | Cotang.] Secant |

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Cover.

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- 1	57 9-62-134 27 14	10/17/45940		9-4-1-7-1-4-2-3	1903	10=\$123177 <sub>.</sub> 10=\$119874		10-042547H 10-0426356	-	9-9573934
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49 7126792 3007		9-1566477	9-7799177	2057	10-2200823	9-6848139	10-0672384	200	9327616	
5 9-7128889 2094	10-2871111	9-1571021	9-7802034	2857	10-2197966	9-6845902	10-0673146	760 3	9326854	
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7 9-7133077 2094	10-2866923	9-1500101	9-7807747	2956	10-2192253	9-6841428	10-0674670	762 9	9325330	58
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9 p. 71 27 260 293/1	10-2862740	9-1509171	9-7813456	2854			10-0676196	763 9	9323804	151
10 9.7130440 2089			9-7816309	2853			10-0676960	7649	9323040	50
11 9.7 (41427 2086)	10-2658563		9.7819162	2853	10-2180838	9-6832469		9	9322276	49
12 9-7143524 2087	10-2856476			2851	10-2177987	9-6830227	10-0678489		9321511	
13 9-7   45609 2085		9-1607280	9.7824864	2851	10-2175136	9-6827985	10-0679254	201	-9320746	
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16 9-7151857 2081			9-7833410	2948	10-2166590		10-0681553	YCC	9318447	
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21 9-7162243 2073		9-1643376		2843			10-0685895	720	9314605	
22 9 7164316 2071	10-2835684		9.7050481	2842			10.0686163		9313835	
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20 9-7 172594 MICC	110.3837400		9-7861844	2838			10-0689250		9310750	
21 3.11.4000 GOOGE	10.38323340			2638	10-2135318		10-0690022	7791	9309978	
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31 9-7182912 2061	10-2617088	9-1688269	9-7876028	2835	10-2123972	9-6787491	10-0693117	775 9	9306883	29
32 9-7184971 2059		9-1692745	9-7876663	2635	10-2121137	9-6785234	10-0693891	774 9	9306109	28
83 9-7187030 2059	10-2812920		9-7881696	2833	10-2118304	9-6782976	10-0694667	776	9305333	27
34 9-7189086 2056		9-1701689	9.7884529	2633	10-2115471	9-6700717	10-0695443	776	9304557	26
35 9-7191142 2056	LIA. YOREGODE	9-1706157	9.7087361	2832	10-2112639	9-6778458	10-0696919	7769	9303781	25
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37 9-7195249 2053	10-2804751	9-1715086	9-7893023	2831	10-2106977	9-6773937	10-0697774	778 9	9302226	23
38 9-7197300 2051	10-2802700	9-1719547	9.7895852	2820	10-2104148		10-0698552		9301448	
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	<b>9-7</b> 831 <i>76</i> 6 <b>9-7</b> 333731	1963	10-2668232 10-2666269			2777	10-1913617			812	9.9247349	1 - 1
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_	7612851	1767	10-2367149			2680			16-0879685	39-9120315	
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35	-7648382	1765	10-2351618	D-2712140	9-8546034	2670	10-1453966	9.6212943	10-0897652 90		3 25
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5	5889613	2351	4110387	1-6979044	7287671	1-3721806	1 237 1769	1918 INE	2031617a5
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12	5906057	2347		1-6931771	7318894	1.3663267	1-2392163	1930397	7 H HUG960 344
13	5908404	-	1001500	1-6925045	7323362	1-3654931	1 2394823	1932115	ACHOT RECEIVE
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19	5922476	2343	4077524	1-6884830	7350210	1-3603054	<b>□2410704</b>	1912440	1723 8057 SOURT
20	5924819	2344	4075181	1-6878151	7354691	1-3596764	1-2413359	1944163	1723 8055×3740
21	5927163		1.14122 2 2 2 7	1-6871479	7359174	1-3588481	1-2416036	1945me7	14 24 MIS\$1,139
22	5929505	2342	3070305			1-3580204	1-2418675	1942611	22 KO25 CALLER
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_	5938871	2340	4061129			1 3547162	1-2429333		11/29
27	5941211	2339		1-6831586	7386115	1 3538918	1.2432003		1700 804 7-51
28	5943550	2431	14056350	1-6824961	7390611	1-3530680	1-2434675	THE REAL PROPERTY.	17-30 H(64-02P-17
29	5445889		4054111	1-6819342	7395110	1-3522449	1-2437349	1959701	11-140 HO4C Z9V=11
30	5948228	10.380	4051772	1-6811730	7399611	1.3514224	1-2440026	1961431	12 PO 12 GOE SU
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1 3	9-7699134		10-2300866			2654	10-1376767			921 9 90749	
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#### FOR DEGREES AND QUARTER-POINTS.

Tab 11.

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### 340 LENGTHS OF CIRCULAR ARCS. Tab. 12.

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	27	-4712389	B56	1.5184354		2.5656340		78540	27	1309		22	
	28	4886922		1-5358897,		2-5830873	28	81449	18	1357		_	
	29	-5061455		1-5533430		2-6005406	.29	B4358	29	1406		23	
	30	5235988	90	1-5707963	150	2-6179939	30	87266	20	1454			
	31	-5410521	91	1-5882496	151	2-6354472	3 8	90175	31	1503	_	25	
	32	-5585054	_	1-6057029			32	93084	32	loot		26	
	33	-5759387	93.			2-670353и	33	33064	33	1599			
_	34	-5934119		1-6406095			,33 }‡	J8303	133	1648			
	35	6108652		1-6580628				101811	35	1697	15		
	36	-6283185		1.6755161		2.7277136		104720	Min	1745			
_	37	-6457718	97	1.6929694		2 7401669		107629	37	1794		30	
	- C	-6632251		1.7104227		2.7576202		110538	38	1842		31	
	39	-6806784		1.7278760		2-7750735		113446	39	1891			
	40	6981317		1-7453293		2.7925268		116355	40			32	
	_	-7155850		1.7627825		2-8099801	1	119264	_	ALCO D	41	33	
E	41			1702/525		2-8274334	41	122173	41	Division.		- P	
	42	-7330983		1.7976891		2.8448867		125082	42	2036 2085	CHILA	25	
		7679449		198151424		2 8623400		127991		2133		36	
ĸ	44			1-0325957		2.8797933				2182			
	46					2.8972466				2102		_	
	47	-8203047		1-8675023		2491 46990		136717		3279		36	
	48	-8377580				2.9321531		139626		3327		_	
	49			1-9024089		2-9496064		142535		<b>2</b>			
	50			19198642	_			145444	50			40	
	51	8901179				2-9845130					•	41	
	_				11			148153		2473		_	
	52 53	*907571z	1	1-9547688		3-0019663		151767		2521			
	54		_			3-03687.9		151171		2574			
	55	9599311	113	2-0071286	11 _	1-0543262		1570%	_	261 -			
	56	9773844		2-0245649				102897	30		, _		
	57	1994H 577		2:0420352	12			10.2892	50	276	1.7	-	
	54			2-0594885	178		4 11 11	10 471 5	57	770		17	
	34	1 0297443		2-0769418		3-1241-594		171624	38				
		14471976		2-0943951		1-1415927		174541		28118		-	
	T		1		<u> </u>		1-		200	-			
	10	Arc	De	Arc	De	Arc	1	Arc	1 70	MIC	1 9"	.1	

CL	HYP.	LO.	CL	HYP.	LO.	CŁ	HYP.	LO.	CL	HYP.	LO.
-01	-02302	2585	·26	-5986	7212	-51	1-1748	1840	•76	1.7499	6467
-02	-0460	5170	.27	-6216	9798	·52	1-1973	4425	•77	1.7729	9052
-03	-06907	7755	-28	-6447	2383	·53	1-2203	7010	·78	1.7960	1637
-04	09210	340	· <b>29</b>	-6677	4968	.54	1.2433	0595	·79	1-8190	4222
-05	11512	2925	•30	-6907	7553	•55	1.2664	2180	-80	1.8420	6807
-06	13815	5511	•31	·7138	0138	·56	1.2894	4765	18.	1.8650	9393
-07	-16118	3096	•32	·7368	2723	•57	1.3124	7350	.82	1.8881	1978
-08	-18420	0681	•33	·7598	5308	•58	1-33549	9935	-83	1.9111	4563
-09	-20723	3266	•34	-7828	7893	•59	1.3585	2520	·84	1.9341	7148
•10	-2302	5851	•35	· <b>80</b> 59	0478	•60	1.3815	5106	·85	1.9571	9733
-11	-25328	3436	•36	-8289	3063	·61	1-40452	7691	·86	1-9802	2318
-12	-2763	1021	•37	·8519	5648	-62	1.42760	0276	-87	2.0032	4903
·13	· <b>29</b> 933	3606	-38	-8749	8234	•63	1.45062	2861	-88	2-0262	7488
-14	-32236	S191	•39	-8980	0819	·6 <b>4</b>	1-4736	5446	-89	2-0493	0073
·15	.34538	3776	-40	•9210	3404	· <b>6</b> 5	1.4966	3031	•90	<b>2-072</b> 3	2658
·16	-3684	1361	-41	•9440	5989	•66	1.51970	0616	·91	<b>2·095</b> 3	5243
-17	-39143	3947	-42	-9670	8574	-67	1.5427	3201	.92	<b>2·1</b> 183	7829
-18	41446	3532	· <b>4</b> 3	•9901	1159	-68	1.5657	5786	·93	2-1414	0414
∙19	-43749	117	•44	1-0131	3744	· <b>69</b>	1.5887	<b>3371</b>	. •94	2-1644	2999
•20	·46051	702	•45	1-0361	6329	·70	1-6118	0957	•95	2-1874	5584
·21	48354	1287	· <b>4</b> 6	1-0591	8914	-71	1-6348	3542	<b>-96</b>	2-2104	8169
•22	-50656	5872	-47	1.0822	1499	·72	1.6578	6127	•97	2-2335	0754
-23	-52959	457	-48	1-1052	4084	· <b>7</b> 3	1.6808	8712	•98	2.2565	3339
·24	-55262	2042	· <b>4</b> 9	1-1282	6670	-74	1.7039	1297	.99	2.2795	5924
•25	-57564	1627	·50	1.1512	9255	·75	1.7269	3882	1-00	2.3025	8509

A TABLE of Rumbs, shewing the Degrees, Minutes, and Seconds, that every Point and Quarter-point of the Compass makes with the Meridian.

Tab. 14.

No	orth	Pts.	qr.	0	,_	H	Pts	.qr.	Sou	th
	1	o	$\overline{1}$	2	48	45	ြ	1		
		0	2	5	<b>37</b>	30		2		
	Ì	0	3	8	26	15		3		
NbE	NbW	1	0	11	15	0		0	SbE	SbW
		1	1	14	3	45	1	1		
		1	2	16	<b>52</b>	30		2		
		1	3	19	41	15	1	3		
NNE	NNW	2	0	22	30	0	2	0	SSE	SSW
		2	1	25	18	45	2	1		
		2	2	28	7	30	2	2		,
		2	3	30	<b>56</b>	15	2	3		
NEbn	NWbN	3	0	33	45	0		0	SE b S	SWbS
		3		36	33	45		1		
		3 3		39	22	30		2		
				42	11	15		3		
NE	NW	4	_	45	0	0		O	SE	SW
	ľ	4	_	47	48	45		1		
		4		50	37	30		2		
NID L D	A1777 777	4		53	26	15		3	en i n	CTT . TT
NEbE	NWbW	5	0	56	15	0	5	0	SE b E	SW b W
		5	1	59	3	45		1	•	
		5	2	61	52	30		2		1
		5		64	41	15		3		11/011
ENE	WNW	6	U	67	30		6	0	ESE	wsw
		0	I	70	18	45		1	1	
1		6 6 6		73	7	30	l.	2		
PLN	WLN			75	56	15	_	3	RLC	WLE
FPN	WPN	7		78	45	0		o	EbS	WbS
		7		81	33	45				
			1	84		30		3		
East	Wash	7		87	11	15		3	Tara	<b>TD</b> Z = -
J. 1350	West	0	U	90	0	U	8	0	East	West
		l		l 			1	!		

## 542 A LIST OF ERRORS DISCOVERED AND CORRECTED.

# I. In Gardiner's Edition of 1742, in 4to.

In the Logarithms.		In the Sines.					
101213	3 <b>6</b> 30		]]	00	40′	45"	8-0738436
14	4059		Ħ	ŏ	59	12	8-2360264
15	4488		<u>}</u>	ľ	7	48	8-2949277
16	4917		<b>}</b>	ī	24	Ö	8-3879622
17	5346		<b>11</b>	2	4	Ŏ	8.5570536
			Ħ	11	24	10	9.2960174
<b>9</b> 1308	5427		11	13	27	30	9-3668676
26719	8202		11	<b>32</b>	3	50	9-7249837
29315	0899		]}	37	26	20	275 diff.
34259	7747-		11	87	26	50	275 diff.
34728	6798		li .	52	32	40	162 diff.
35704	7584		Ħ	85	43	10	9-9171322
51193	2106		<b>{}</b>	65	4	20	97 diff.
<b>\$9502</b>	5316		<u>]</u> }	65	4	30	98 diff.
60844	2178		H	65	4	30	9-9575403
<b>644</b> 45	1892		<b>}</b> }	70	<b>30</b>	50	9-9743838
65640	1686		<b>!</b> !	<b>75</b>	<b>53</b>	<b>30</b>	52 di <b>£.</b>
66607	5199		<b>{</b> {	77	22	20	9-9898657
67329	2022		<b>!</b>	82	0	40	9-9957646
69519	1085		}}	85	55	0	9-9988962
71492	2574		<b>{</b>				
73338	3291		11		In	the Ta	ngents.
78983	1319		11	-	_	0"	8.7674175
74294	9537		<b>}</b> }	<b>3•</b>	21'	_	9-1799393
74742	5647		H	10	86	20 50	9-2564267
<b>75561</b>	2977		<b>[</b> ]	13	18		9-3756001
76000	8136			48	21 56	30 30	9-3730001
76041	0478			<b>44</b>	12	20	9-9879549
76031	9907			68	19	20	10-4006638
77316	269 <b>4</b>		8 L	71	21	0	10-4717147
82958	8583			73 ·	18	ŏ	10-5228579
	_			77	1	40	10-6375975
Absolute Nu	nbers.	·	48	84	7	10	10.9871756
6462	6492		8 B	86	39	40	11-2340287
8668	8688			87	19	20	11-3300317
9167	9157		N 18*	88	20	30	11.5383295
			•	89	55	10	12-8520268
			L to 20	_	_	_	96189
			ľ	-	-		
			Expl. &	Use	<b>p.</b> 13	i, 1.4 l	bot. M‡, m‡.
		1	li		•		
			11				

Note, that some very few places are omitted where a figure does not perfectly appear, as they are not real errors, and cannot mislead, but may easily be filled up by the differences.—It is also to be observed, that some of these errors in both the books are not in all copies of the same edition, as I have experienced by collating divers copies: a circumstance probably occasioned by types sometimes working out at the press, and carelessly supplied again; and sometimes by discovering and correcting errors after the copies of some sheets have been but partly worked off. And the same in the French edition following.—All the real errors in both books are brought together in these tables, both those I have seen printed elsewhere, and those received by private communication, besides upwards of twenty detected by myself, in comparing the proofs of my book with the like parts of the others.

# II. In the Avignon Edition of 1770.

100288   4997	In the Lo	garithms.	11			In the	Sines.
100499	100288	4897	H	00	<b>6</b> ′	36"	7·2832 <b>698</b>
101213   3630   0 37 3   8-0325059     14   4059   0 45 30   8-1217248     15   4488   2 10 35   8-5795094     16   4917   2 34 53   8-6367629     17   5346   2 37 28   8-6607629     17   5346   2 37 28   8-6607629     18   4020   31 13 38   8-7458722     17740   9536   3 26 47   8-7789797     24626   3939   18 44 20   21 diff.     239 23   8-6660134     240 679   33 26 47   8-7789797     24626   3939   18 44 20   21 diff.     340259   7747   30   9-850947     340259   7747   30   9-850947     340259   7747   30   9-8575408     37768   3361   67 17 30   9-9575408     37796   2953   75 53 30   25 diff.     37796   2953   75 53 30   25 diff.     34021   1415   98 52 10   9-9999154     44218   5991   0° 9' 17"   7-4314311     44781   0938   011   47   7-5349960     46309   6654   0 14 23   7-6218882     46309   6654   0 14 23   7-6218882     46408   1940   0 24 16   7-8487435     5996   3471   1 22 57   8-9348694     5996   3471   1 22 57   8-9348694     5996   3471   1 22 57   8-9348694     5996   3471   1 22 57   8-836268     60844   2178   3 6 28   8-7347535     60844   1899   3 19 9 8-7633926     64445   1899   3 19 9 8-7633926     64445   1899   3 19 9 8-7633926     64445   1899   3 19 9 8-7633926     64445   1899   3 19 9 8-7633926     64445   1899   3 19 9 8-7633926     64445   1899   3 19 9 8-7633926     646861   1175   17 39 40 9-502635     6419   1899   3 19 9 8-7633926     6429   3566   23 5 20 9-6297224     6826   9464   9961   3864   3408      Absolute Numbers.   4770   3669   4588     8532   916   5952   55320     7235   7135   7635   7535     Absolute Numbers.   4770   3669   4588     8532   9564   9961   3864   3408      Absolute Numbers.   4770   4670     3520   5520   7535   110     74703   3580   75535   110     74703   3580   75535   110     74703   3580   75535   110     74703   3580   75535   110     74704   3654   3408   3408   3408     7480   3408   3408   3408   3408   3408     7480   3408   3408   3408   3408   3408   3408   3408   3408   3408   3408   3408   3408   3408   3408   3408	-	1	11	0		36	
14    4059			11			3	
15 4488			- 11	0	45	<b>30</b>	8-1217248
16			11	2	10	35	8.5795094
17					34	<b>53</b>	8·65358 <b>39</b>
14151	17		-				
17740   9536   3939   18   44   20   621 diff.			- 11				
24626 3939		7871					_
25803 6702 4473 65 4 20 9-8500947 33071 4473 30 98 diff. 30 98 diff. 30 9-8575408 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 3361 37268 33724 44218 6833 43224 3274 44218 5991 0° 9' 17" 7-4314311 44781 0938 0 11 47 7-5349960 6654 0 14 23 7-6215882 46559 0036 0 23 38 7-8372579 51193 2106 0 24 16 7-8487435 54681 8364 0 24 54 7-859931 59809 3471 1 12 2 57 8-3826268 6956 59809 3471 1 12 2 57 8-3826268 69444 1 1175 1 12 2 57 8-3826268 64445 1892 5 5 0 8-9491676 68128 3256 68128 3256 68128 3256 68128 3256 68128 3256 68128 3256 6839 9607 35 4 40 9-8464809 69539 9778 677 13 50 10-3770260 69533 1910 88 3 10 11-4685399 70076 5693 1910 88 3 10 11-4685399 770676 5693 71021 3864 74703 3380 Table to 20 places. 59 1645-39485 1083 03462-84566 8952 9584 4098 84593 3068 85522 0916 85352 9584 29600 6956 84841 9961 1 366 77 1087 111.00127 53175-78 67635 7535 1 1083 03462-84566 1 3402 0 5520 7225 11.00127 53175-78 67635 7535 1 1083 03462-84566		9536	11				
33071 4473 30 97 diff.  34728 6798 37268 3361 75 53 30 9-9575403  37268 3361 75 53 30 9-9575403  38119 1415 88 52 10 9-9999154  42431 6833			1				
34259 7747 34726 6798 6798 730 9-9575408 37268 3361 67 17 30 9-9649579 37696 2953 755 330 .52 diff. 38119 1415 98 52 10 9-9999154 42431 6833 43284 3274			- 1				
34728 6798 37666 3361 67 17 30 9-9649579 37696 22953 775 53 30 9-9649579 37696 22953 775 53 30 9-9649579 38119 1415 88 52 10 9-9999154 42431 6633	-	-	#	U.J	*		
37268 3361 37696 2953 75 53 30 5.9649579 .52 diff. 38119 1415 98 52 10 9-9999154 42431 6633 43244 3274 44218 5991 0 938 0 11 47 7.5349960 46309 6654 0 14 23 7.6215882 46559 0036 0 24 16 7.8447435 54681 8364 0 24 54 7.859931 58987 7563 0 37 15 8.0348694 59502 5316 1 19 15 8.3628023 59889 3471 1 22 57 8.3826268 6044 2178 3 0 7 8.7196777 63064 7815 3 6 28 8.7347535 64149 1899 3 19 9 8.7633926 64445 1892 5 5 0 8.9491676 64881 1175 17 39 40 9.5029635 60128 3256 23 5 20 9.6297224 68761 3422 22 32 0 9.6355321 68859 9607 5693 71021 3864 7870 86859 9776 67 13 50 10.5370280 70078 5693 71021 3864 74703 3380 77235 7135 7635 7535 1 58eet e last line, M <sup>1</sup> , m <sup>1</sup> .  Absolute Numbers.  4770 4670 3520 7235 7135 7635 7535			ij				
37896   2953   3819			- 11	67	17		
## 1415   1415   683   52   10   9-9999154   ## 142431   6833   In the Tangents.   ## 14218   5991   0° 9′ 17″   7-4314311   ## 14781   0938   0   11   47   7-5349960   ## 1555   0036   0   24   16   7-8487435   ## 15681   8364   0   24   54   7-839331   ## 158967   7563   0   37   15   8-0348694   ## 159502   5316   1   19   15   8-3628023   ## 159889   3471   1   22   57   8-3826268   ## 160844   2178   3   0   7   8-7196777   ## 163064   7815   3   6   28   8-7347535   ## 16419   1899   3   19   9   8-7633926   ## 16445   1892   5   5   0   8-9491676   ## 164861   1175   17   39   40   9-5029635   ## 16445   1892   5   5   0   8-9491676   ## 164861   1175   17   39   40   9-5029635   ## 168859   9607   35   4   40   9-8464809   ## 164861   1035   73   20   50   10-5241600   ## 165339   9776   67   13   50   10-3770260   ## 16693   71021   3864   74703   3380   ## 1674   0838   ## 1898   3068   3   10   1-4885399   ## 17076   5693   71021   3864   74703   3380   ## 1674   0838   ## 1674   0838   ## 1674   0838   ## 1675   12° 60′   ## 17			ii ii				
42431 6633 43284 3274 44218 5991 44781 0938 46309 6654 46559 0036 46559 0036 46559 0036 51193 2106 54681 8364 5992 5316 5992 5316 69644 2178 63064 7815 63064 7815 64149 1899 64347 5283 64445 1892 64347 5283 64445 1892 64347 5283 64445 1892 64347 5283 64149 1899 64381 1175 64189 1175 64			ii ii				
43284   3274   44718   5991   0° 9' 17"   7.4314311     44781   9938   0 11 47   7.5349960     46309   6654   0 14 23   7.6215882     46559   0036   0 23 38   7.6215882     46559   0036   0 24 16   7.8487435     54681   8364   0 24 54   7.8599331     55967   7563   0 37 15   8.0348694     59502   5316   1 19 15   8.3628023     59889   3471   1 22 57   8.3826268     60844   2178   3 0 7   8.7196777     63064   7815   3 6 28   8.7347535     64149   1899   3 19 9   8.7633926     64347   5283   3 54 38   8.9347909     64445   1892   5 5 0   8.9491676     64881   1175   17 39 40   9.5029635     69128   3256   23 5 20   9.6297224     68761   3422   23 22 0   9.6355321     69839   9776   67 13 50   10.3770260     69839   9786   9			H			-	
44218 5991			#		In	the Tan	gents.
44781			1)	0•	9,	17"	7-4314311
46309   6654   0   14   23   7-6215882   46559   0036   0   23   38   7-8373579   51193   2106   0   24   54   7-8373579   54681   8364   0   24   54   7-8599331   58987   7563   0   37   15   8-0348694   59502   5316   1   19   15   8-3628023   58989   3471   1   22   57   8-3826268   60844   2178   3   0   7   8-7196777   63064   7815   3   6   28   8-7347535   64149   1899   3   19   9   8-7633926   64347   5283   3   54   38   8-2347909   64347   5283   3   54   38   8-2347909   64445   1892   5   5   0   8-9491676   64881   1175   17   39   40   9-5029635   62128   3256   23   5   20   9-6297224   62761   3422   23   22   0   9-6355321   62859   9607   35   4   40   9-5029635   62839   9776   67   13   50   10-3770260   62859   9607   35   4   40   9-8648409   9-8769   67   13   50   10-5241600   11-4685399   70076   6693   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   3380   71021   3864   74703   7470	44781		11			-	
51193   2106   0		6654					
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74703   3380   T 4   12° 60′   81674   0838   Table to 20 places. 85328   0916   59   77085·20 &c. 86486   9458   825   91645·39485   89680   6956   94641   9961   Table III. of the same.  93614   3408   Diff. II. ib. 00127   53175·47 &c.  4770   4670   3520   5520   Tuble III. of the same.  1067   1.9095425   Tuble III. of the same.  107   1.9095425   Diff. II. ib. 00127   1.9095425    1083   0.3462·84566   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff. II. ib. 00127   Diff.			li li		Shaas	e .	<b>70</b> 1
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III. The following List of Errors in Callet's Tables Portatives have been discovered in reading his book with the proof-sheets of the 2d edition of my Tables.

# In Callet's Tables Portations, Paris 1783.

#### In the Introduction.

Page 9, line 1, read 1/b
41, — 9, — compris c
19, — 10,
44, — 10, — 1/4c.
46, — 28, — 29.



In the Logarithms.		
47891	2539	
60844	2178	
64118	9461	
64445	1892	
64547	8761	
70357	- 3078	
76872	7682	
77054	8515	
78050	3729	
99018	7142	

# IV. In Taylor's Tables, London 1792; besides those mentioned in the book itself.

Page 56, line 32, for +2, read + 1.2
57, - 10 and 11, read only one root
- 16, for P read P

-25, for  $-\frac{3}{2}$  read  $\frac{3}{2}$ 

-- 27, for 4p reed 4p

In the Sines.

4° 28′ 88° | 43007 4 28 89 | 43261

# V. In Callet's Stereotype Edition, Paris 1795.

#### In the Logarithms.

1014	3795
24626	3939
33071	4473
43130	7795
53919	7418
56246	0916
57319	2986
81674	0888
20018	7149

#### In Tuble I. to 20 Places.

965	56538
1071	56538 94 <b>6</b> 08
1085	85148
1105	21729
1115	84779
1125	47981
1125	90741

In Table III. of the same.

00132 Dif. 34589

In the Differences.

185 — 1 19 185 — 3 56 66 — 6 40 In the Tangents.

0° 23' 38" | 2579 0 24 54 | 9331

# VI. In the Table Trigonométriques Décimales, of 1801.

In the Logarithme.

Num. | Log. 24626 | 3939 | 33071 | 4473 | 53919 | 7418 | 81674 | 0838

